# (12) UK Patent Application (19) GB (11) 2 360 284 (13) A

(43) Date of A Publication 19.09.2001

- (21) Application No 0024263.6
- (22) Date of Filing 04.10.2000
- (30) Priority Data
- (32) 04.02.2000
- (31) 60180312 (31) 60207456
- (32) 26.05.2000

(33) US

- (31) 60234687
- (32) 21.09.2000
- (60) Parent of Application No(s) 0115281.8 under Section 15(4) of the Patents Act 1977
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- (51) INT CL7 C12Q 1/68, C07H 21/00
- (52) UK CL (Edition S ) СЗН НВ4А C2L LSN L100N L400P G1B BAC B200 B201 B203 B221
- (56) Documents Cited

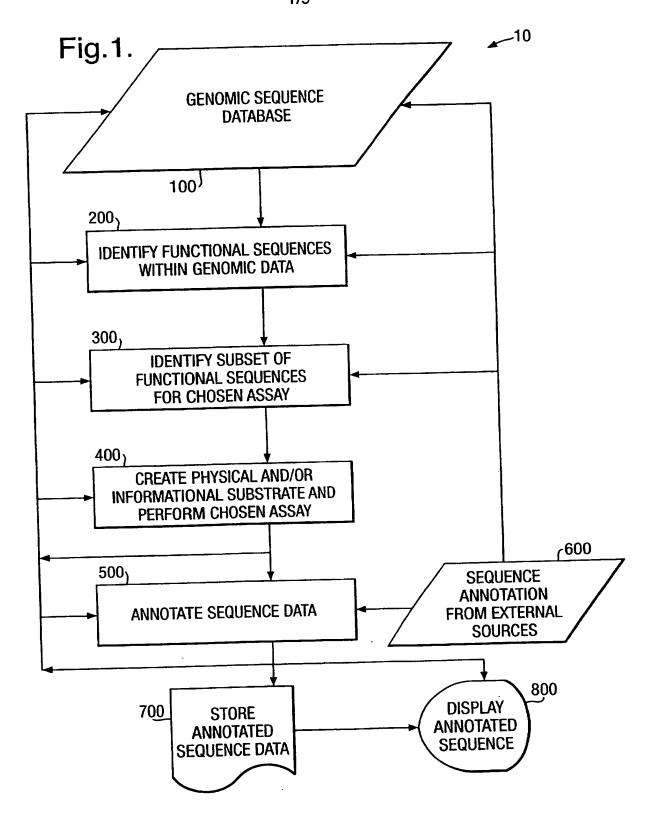
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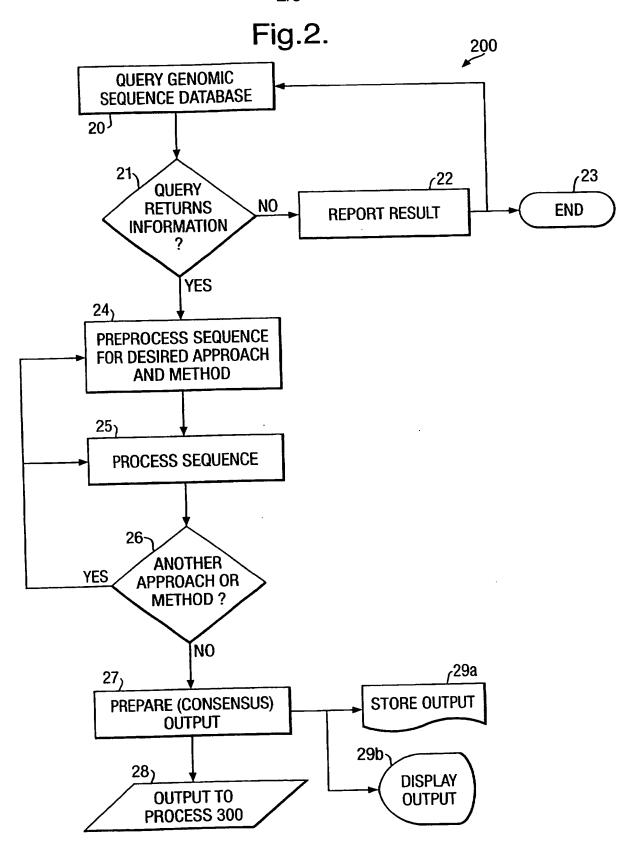
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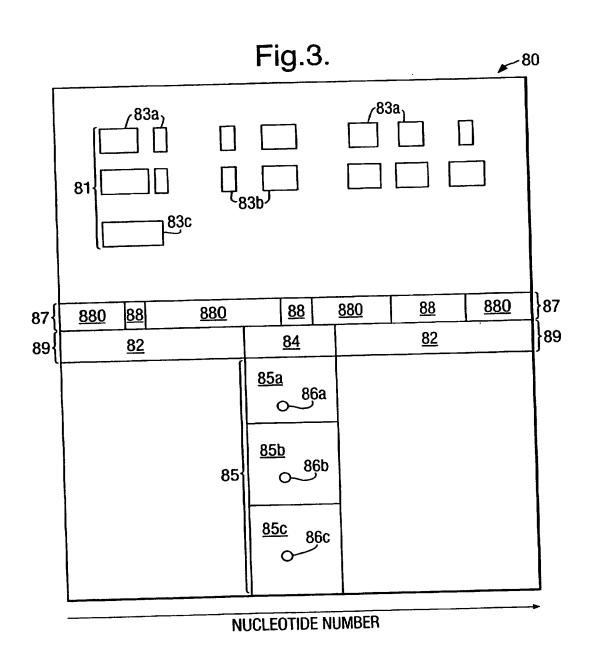
- (58) Field of Search Online: EPODOC, WPI, BIOSIS, MEDLINE, CAS-ONLINE, SCISEARCH, EMBASE
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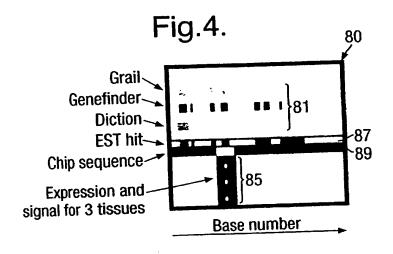
#### (54) Abstract Title Human genome-derived single exon nucleic acid probes

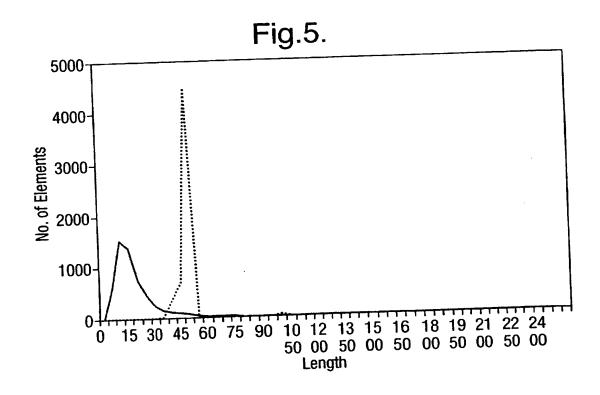
(57) A spatially addressable set of such probes is provided for measuring gene expression in a sample derived from human heart, the probes comprising any one of the nucleotide sequences set out in SEQ ID NOS: 1-5202 or 5203-10283 or a complementary sequence. The set may comprise 50-20,000 probes of average length 200-500 bp and may be addressably disposed upon a substrate. At least 50% of the probes lack prokaryotic and bacteriophage vector sequence and at least 50% lack homopolymeric stretches of A or T. Each of the probes may be amplifiable using at least one common primer. Also claimed are said nucleotide sequences and peptides encoded thereby.

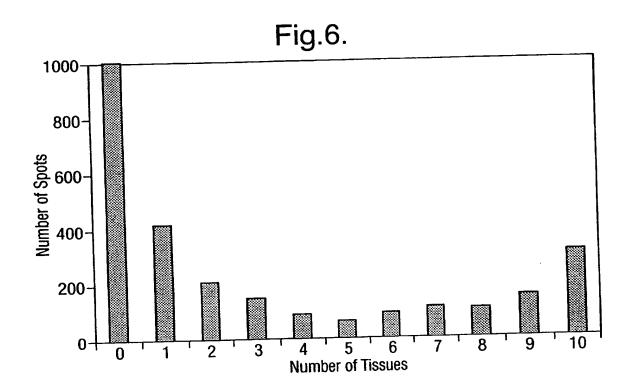


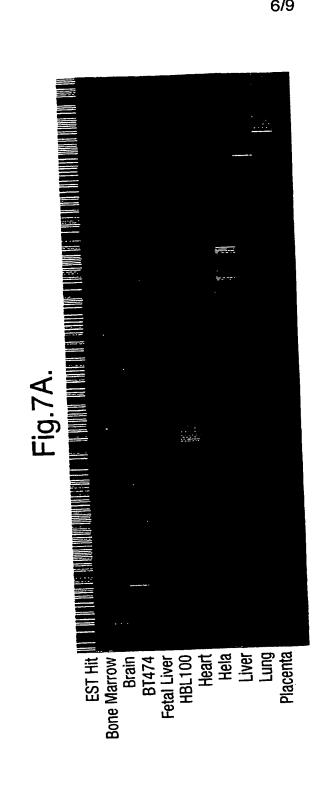


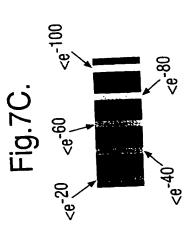


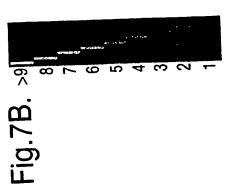


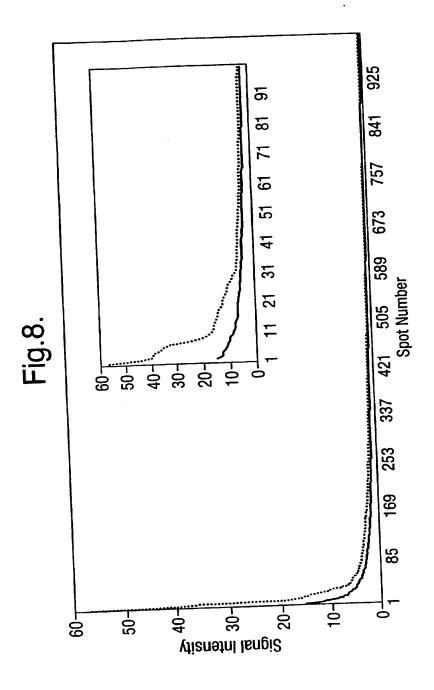












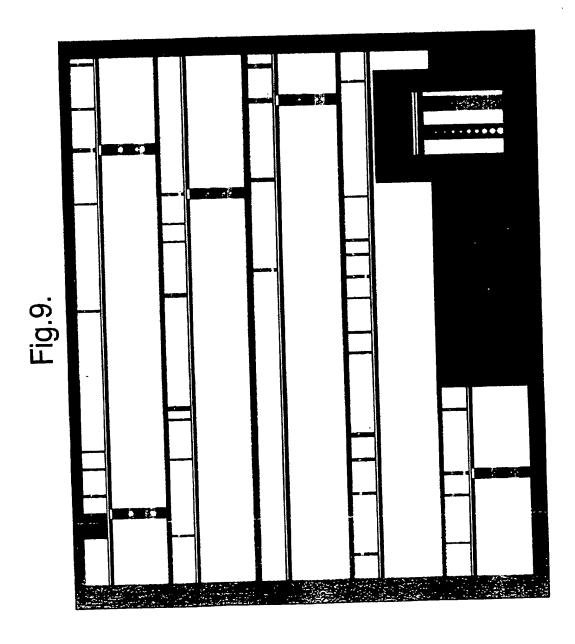
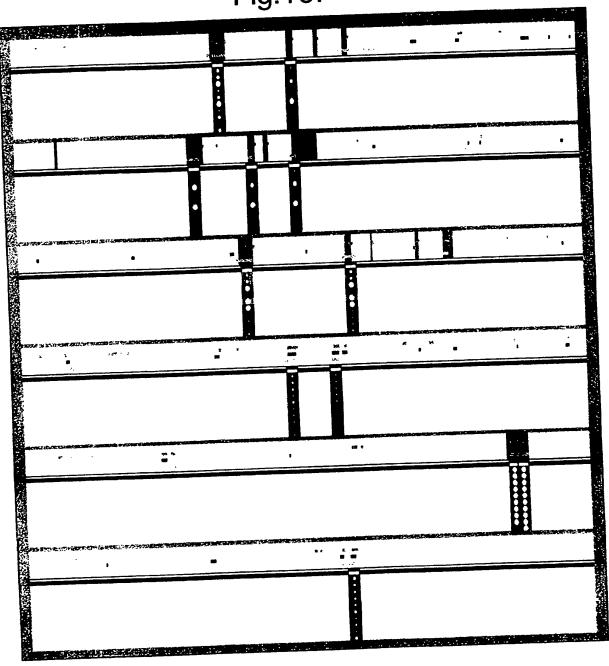


Fig.10.



HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR ANALYSIS OF GENE EXPRESSION IN HUMAN HEART

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Field of the Invention

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The present invention relates to genome-derived single exon microarrays useful for verifying the expression of regions of genomic DNA predicted to encode protein. In particular, the present invention relates to unique genome-10 derived single exon nucleic acid probes expressed in human heart and single exon nucleic acid microarrays that include such probes.

### Background of the Invention

For almost two decades following the invention of general techniques for nucleic acid sequencing, Sanger et al., Proc. Natl. Acad. Sci. USA 70(4):1209-13 (1973); Gilbert et al., Proc. Natl. Acad. Sci. USA 70(12):3581-4 (1973), these techniques were used principally as tools to 20 further the understanding of proteins - known or suspected - about which a basic foundation of biological knowledge had already been built. In many cases, the cloning effort that preceded sequence identification had been both informed and directed by that antecedent 25 biological understanding.

For example, the cloning of the T cell receptor for antigen was predicated upon its known or suspected cell type-specific expression, by its suspected membrane association, and by the predicted assembly of its gene via 30 T cell-specific somatic recombination. Subsequent sequencing efforts at once confirmed and extended understanding of this family of proteins. Hedrick et al., Nature 308 (5955):153-8 (1984).

More recently, however, the development of high

throughput sequencing methods and devices, in concert with large public and private undertakings to sequence the human and other genomes, has altered this investigational paradigm: today, sequence information often precedes understanding of the basic biology of the encoded protein product.

One of the approaches to large-scale sequencing is predicated upon the proposition that expressed sequences — that is, those accessible through isolation of 10 mRNA — are of greatest initial interest. This "expressed sequence tag" ("EST") approach has already yielded vast amounts of sequence data (see for example Adams et al., Science 252:1651 (1991); Williamson, Drug Discov. Today 4:115 (1999)). For nucleic acids sequenced by this approach, often the only biological information that is known a priori with any certainty is the likelihood of biologic expression itself. By virtue of the species and tissue from which the mRNA had originally been obtained, most such sequences are also annotated with the identity of the species and at least one tissue in which expression appears likely.

More recently, the pace of genomic sequencing has accelerated dramatically. When genomic DNA serves as the initial substrate for sequencing efforts, expression cannot be presumed; often the only a priori biological information about the sequence includes the species and chromosome (and perhaps chromosomal map location) of origin.

With the ever-accelerating pace of sequence accumulation by directed, EST, and genomic sequencing

30 approaches — and in particular, with the accumulation of sequence information from multiple genera, from multiple species within genera, and from multiple individuals within a species — there is an increasing need for methods that rapidly and effectively permit the functions of nucleic

sequences to be elucidated. And as such functional information accumulates, there is a further need for methods of storing such functional information in meaningful and useful relationship to the sequence itself; that is, there is an increasing need for means and apparatus for annotating raw sequence data with known or predicted functional information.

Although the increase in the pace of genomic sequencing is due in large part to technological changes in sequencing strategies and instrumentation, Service, Science 280:995 (1998); Pennisi, Science 283: 1822-1823 (1999), there is an important functional motivation as well.

While it was understood that the EST approach would rarely be able to yield sequence information about the noncoding portions of the genome, it now also appears the EST approach is capable of capturing only a fraction of a genome's actual expression complexity.

For example, when the C. elegans genome was fully sequenced, gene prediction algorithms identified over 20 19,000 potential genes, of which only 7,000 had been found by EST sequencing. C. elegans Sequencing Consortium, Science 282:2012 (1998). Analogously, the recently completed sequence of chromosome 2 of Arabidopsis predicts over 4000 genes, Lin et al., Nature, 402:761 (1999), of 25 which only about 6% had previously been identified via EST sequencing efforts. Although the human genome has the greatest depth of EST coverage, it is still woefully short of surrendering all of its genes. One recent estimate suggests that the human genome contains more than 146,000 30 genes, which would at this point leave greater than half of the genes undiscovered. It is now predicted that many genes, perhaps 20 to 50%, will only be found by genomic sequencing.

There is, therefore, a need for methods that

permit the functional regions of genomic sequence — and most importantly, but not exclusively, regions that function to encode genes — to be identified.

Much of the coding sequence of the human genome
is not homologous to known genes, making detection of open
reading frames ("ORFs") and predictions of gene function
difficult. Computational methods exist for predicting
coding regions in eukaryotic genomes. Gene prediction
programs such as GRAIL and GRAIL II, Uberbacher et al.,

Proc. Natl. Acad. Sci. USA 88(24):11261-5 (1991); Xu et
al., Genet. Eng. 16:241-53 (1994); Uberbacher et al.,
Methods Enzymol. 266:259-81 (1996); GENEFINDER, Solovyev et
al., Nucl. Acids. Res. 22:5156-63 (1994); Solovyev et al.,
Ismb 5:294-302 (1997); and GENESCAN, Burge et al., J. Mol.

Biol. 268:78-94 (1997), predict many putative genes without known homology or function. Such programs are known, however, to give high false positive rates. Burset et al., Genomics 34:353-367 (1996). Using a consensus obtained by a plurality of such programs is known to increase the reliability of calling exons from genomic sequence.

Ansari-Lari et al., Genome Res. 8(1):29-40 (1998)

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Identification of functional genes from genomic data remains, however, an imperfect art. For example, in reporting the full sequence of human chromosome 21, the Chromosome 21 Mapping and Sequencing Consortium reports that prior bioinformatic estimates of human gene number may need to be revised substantially downwards. Nature 405:311-199 (2000); Reeves, Nature 405:283-284 (2000).

Thus, there is a need for methods and apparatus

that permit the functions of the regions identified

bioinformatically — and specifically, that permit the

expression of regions predicted to encode protein — readily

to be confirmed experimentally.

Recently, the development of nucleic acid

microarrays has made possible the automated and highly parallel measurement of gene expression. Reviewed in Schena (ed.), DNA Microarrays: A Practical Approach (Practical Approach Series), Oxford University Press (1999) (ISBN: 0199637768); Nature Genet. 21(1)(suppl):1 - 60 (1999); Schena (ed.), Microarray Biochip: Tools and Technology, Eaton Publishing Company/BioTechniques Books Division (2000) (ISBN: 1881299376).

It is common for microarrays to be derived from cDNA/EST libraries, either from those previously described in the literature, such as those from the I.M.A.G.E. consortium, Lennon et al., Genomics 33(1):151-2 (1996), or from the construction of "problem specific" libraries targeted at a particular biological question, R.S. Thomas et al., Cancer Res. (in press). Such microarrays by definition can measure expression only of those genes found in EST libraries, and thus have not been useful as probes for genes discovered solely by genomic sequencing.

The utility of using whole genome nucleic acid

microarrays to answer certain biological questions has been demonstrated for the yeast Saccharomyces cerevisiae. De Risi et al., Science 278:680 (1997). The vast majority of yeast nuclear genes, approximately 95% however, are single exon genes, i.e., lack introns, Lopez et al., RNA 5:1135-1137 (1999); Goffeau et al., Science 274:563-67 (1996), permitting coding regions more readily to be identified. Whole genome nucleic acid microarrays have not generally been used to probe gene expression from more complex eukaryotic genomes, and in particular from those averaging more than one intron per gene.

#### Summary of the Invention

The present invention solves these and other

problems in the art by providing methods and apparatus for predicting, confirming, and displaying functional information derived from genomic sequence. The present invention also provides apparatus for verifying the expression of putative genes identified within genomic sequence.

In particular, the invention provides novel genome-derived single exon nucleic acid microarrays useful for verifying the expression of putative genes identified within genomic sequence.

The present invention also provides compositions and kits for the ready production of nucleic acids identical in sequence to, or substantially identical in sequence to, probes on the genome-derived single exon microarrays of the present invention.

Accordingly, in a first aspect of the invention, there is provided a spatially-addressable set of single exon nucleic acid probes for measuring gene expression in a sample derived from human heart, comprising a plurality of single exon nucleic acid probes according to any one of the nucleotide sequences set out in SEQ ID NOs: 1 - 5,202 or a complementary sequence, or a portion of such a sequence.

By plurality is meant at least two, suitably at least 20, most suitably at least 100, preferably at least 1000 and, most preferably, upto 5000.

In one embodiment of the first aspect, each of said plurality of probes is separately and addressably amplifiable.

In an alternative embodiment, each of said 30 plurality of probes is separately and addressably isolatable from said plurality.

In a preferred embodiment, each of said plurality of probes is amplifiable using at least one common primer. Preferably, each of said plurality of probes is amplifiable

using a first and a second common primer.

In yet another embodiment, said set of single exon nucleic acid probes comprises between 50 - 20,000 probes, for example, 50 - 5000.

Suitably, said set of single exon nucleic acid probes comprises at least 50 - 1000 discrete single exon nucleic acid probes having a sequence as set out in any of SEQ ID NOS.: 1 - 10,283 or a complimentary sequence, or a portion of such a sequence.

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Preferably, the average length of the single exon nucleic acid probes is between 200 and 500 bp. It is preferred that the average length should be at least 200bp, suitably at least 250bp, most suitably at least 300bp, preferably at least 400bp and, most preferably, 500 bp.

In another embodiment, the single exon nucleic acid probes lack prokaryotic and bacteriophage vector sequence. It is preferred that at least 50%, suitably at least 60%, most suitably at least 70%, preferably at least 75%, more preferably at least 80, 85, 90, 95 or 99% of said 20 single exon nucleic acid probes lack prokaryotic and bacteriophage vector sequence.

In another preferred embodiment, said single exon nucleic acid lack homopolymeric stretches of A or T. It is preferred that at least 50%, suitably at least 60%, most 25 suitably at least 70%, preferably at least 75%, more preferably at least 80, 85, 90, 95 or 99% of said single exon nucleic acid probes lack homopolymeric stretches of A or T.

In a particularly preferred embodiment, a set of 30 single exon nucleic acid probes in accordance with a first aspect of the invention comprises a nucleotide sequence selected from any of SEQ ID NOS.: 286, 287, 442, 871, 1029, 1280, 1597, 1619, 1694, 1715, 1721, 1848, 1935, 2119, 2233, 2893, 3003, 3003, 3149, 3403, 3471, 3513, 3607, 4102, 4164, 4184, 4184, 4242, 4730, 4779, 4976, 4988, 5473, 5608, 6019, 6169, 6410, 6723, 6745, 6818, 6838, 6844, 6966, 7052, 7230, 7340, 8044, 8155, 8298, 8545, 8612, 8654, 8746, 9228, 9290, 9310, 9367, 9842, 9889, 10079 and 10091, a sequence complementary to any of said sequences, or a portion of such a sequence.

In yet another embodiment, a set of single exon nucleic acid probes in accordance with the invention comprises a nucleotide encoding a peptide having an amino acid sequence as set out in any of SEQ ID NOS.: 10603, 10741, 11179, 11571, 11893, 11913, 11999, 12017, 12023, 12152, 12245, 12439, 12552, 13144, 13255, 13256, 13407, 13653, 13724, 13841, 14313, 14370, 14390, 14391, 14934, 15149 and 15161, or portion thereof.

Preferably, a spatially-addressable set of single exon nucleic acid probes in accordance with the first aspect of the invention is is addressably disposed upon a substrate.

Suitable substrates include a filter membrane
which may, preferably, be nitrocellulose or nylon. The
nylon may preferably, be positively-charged. Other suitable
substrates include glass, amorphous silicon, crystalline
silicon, and plastic. Further suitable materials include
polymethylacrylic, polyethylene, polypropylene,
polyacrylate, polymethylmethacrylate, polyvinylchloride,
polytetrafluoroethylene, polystyrene, polycarbonate,
polyacetal, polysulfone, celluloseacetate,
cellulosenitrate, nitrocellulose, and mixtures thereof.

In a second aspect of the invention, there is 30 provided a microarray comprising a spatially addressable set of single exon nucleic acid probes in accordance with the first aspect of the invention.

In one embodiment, a genome-derived single-exon microarray is packaged together with such an ordered set of amplifiable probes corresponding to the probes, or one or

more subsets of probes, thereon. In alternative embodiments, the ordered set of amplifiable probes is packaged separately from the genome-derived single exon microarray.

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In another aspect, the invention provides genomederived single exon nucleic acid probes useful for gene expression analysis, and particularly for gene expression analysis by microarray. In particular embodiments of this aspect, the present invention provides human single-exon 10 probes that include specifically-hybridizable fragments of SEQ ID Nos. 5,203 - 10,283, wherein the fragment hybridizes at high stringency to an expressed human gene. particular embodiments, the invention provides single exon probes comprising SEQ ID Nos. 1 - 5,202.

Accordingly, in a third aspect of the invention, there is provided a single exon nucleic acid probe for measuring human gene expression in a sample derived from human heart which is a nucleic acid molecule comprising a nucleotide sequence as set out in any of SEQ ID NOs.: 1 -20 5,202 or a complementary sequence or a fragment thereof wherein said probe hybridizes at high stringency to a nucleic acid expressed in the human heart.

In one embodiment, a single exon nucleic acid probe in accordance with the third aspect comprises a 25 nucleotide sequence as set out in any of SEQ ID NOs.: 5,203 - 10,283 or a complementary sequence or a fragment thereof.

In a fourth aspect of the invention, there is provided a single exon nucleic acid probe for measuring human gene expression in a sample derived from human heart 30 which is a nucleic acid molecule having a sequence encoding a peptide comprising a peptide sequence as set out in any of SEQ ID NOs.: 10,284 - 15,322 or a complementary sequence or a fragment thereof wherein said probe hybridizes at high stringency to a nucleic acid expressed in the human heart.

In a preferred embodiment, a single exon nucleic 35

acid probe for measuring human gene expression in a sample derived from human heart is selected from any of SEQ ID NOS.: 286, 287, 442, 871, 1029, 1280, 1597, 1619, 1694, 1715, 1721, 1848, 1935, 2119, 2233, 2893, 3003, 3003, 3149, 3403, 3471, 3513, 3607, 4102, 4164, 4184, 4184, 4242, 4730, 4779, 4976, 4988, 5473, 5608, 6019, 6169, 6410, 6723, 6745, 6818, 6838, 6844, 6966, 7052, 7230, 7340, 8044, 8155, 8298, 8545, 8612, 8654, 8746, 9228, 9290, 9310, 9367, 9842, 9889, 10079 and 10091.

In another embodiment, a single exon nucleic acid probe for measuring human gene expression in a sample derived from human heart is selected from a nucleotide encoding a peptide, or portion thereof, as set out in any of SEQ ID NOS.: 10603, 10741, 11179, 11571, 11893, 11913, 11999, 12017, 12023, 12152, 12245, 12439, 12552, 13144, 13255, 13256, 13407, 13653, 13724, 13841, 14313, 14370, 14390, 14391, 14934, 15149 and 15161.

Preferably, a single exon nucleic acid probe in accordance with the third or fourth aspects of the invention comprises between at least 15 and 50 contiguous nucleotides of said SEQ ID NO:. It is preferred that the single exon nucleic acid probe comprises at least 15, suitably at least 20, more suitably at least 25 or preferably at least 50 contiguous nucleotides of said SEQ ID NO:.

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In another preferred embodiment, a single exon nucleic acid probe in accordance with the third or fourth aspects of the invention is between 3kb and 25kb in length. It is preferred that said probe is no more than 3kb, suitably no more than 5kb, more suitably no more than 10kb, preferably 15kb, more preferably 20kb or, most preferably, no more than 20kb in length.

Preferably, a single exon nucleic acid probe in accordance with either the fifth or sixth aspect of the invention is DNA, preferably single-stranded DNA, RNA or

PNA.

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In another embodiment of either the third or fourth aspect of the invention, a single exon nucleic acid probe is detectably labeled. Suitable detectable labels 5 include a radionuclide, a fluorescent label or a first member of a specific binding pair. Suitable fluorescent labels include dyes such as cyanine dyes, preferably Cy3 and Cy5 although other suitable dyes will be known to those skilled in the art.

In a particularly preferred embodiment, a single exon nucleic acid probe in accordance with either the third or fourth aspect of the invention lacks prokaryotic and bacteriophage vector sequence. In yet another embodiment, a single exon nucleic acid probe in accordance with either 15 the third or fourth aspect of the invention lacks homopolymeric stretches of A or T.

In a fifth aspect of the invention, there is provided an amplifiable nucleic acid composition, comprising:

the single exon nucleic acid probe in accordance with either of the third or fourth aspects of the invention; and at least one nucleic acid primer;

wherein said at least one primer is sufficient to prime enzymatic amplification of said probe.

In an sixth aspect of the invention, there is provided a method of measuring gene expression in a sample derived from human heart, comprising:

contacting the single exon microarray in accordance with the second aspect of the invention, with a 30 first collection of detectably labeled nucleic acids, said first collection of nucleic acids derived from mRNA of human heart; and then

measuring the label detectably bound to each probe of said microarray.

In a seventh aspect of the invention, there is 35

provided a method of identifying exons in a eukaryotic genome, comprising:

algorithmically predicting at least one exon from genomic sequence of said eukaryote; and then

detecting specific hybridization of detectably labeled nucleic acids to a single exon probe,

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wherein said detectably labeled nucleic acids are derived from mRNA from the heart of said eukaryote, said probe is a single exon probe having a fragment identical in sequence to, or complementary in sequence to, said predicted exon, said probe is included within a single exon microarray in accordance with the first aspect of the invention, and said fragment is selectively hybridizable at high stringency.

In a eighth aspect of the invention, there is provided a method of assigning exons to a single gene, comprising:

identifying a plurality of exons from genomic sequence in accordance with the seventh aspect of the invention; and then

measuring the expression of each of said exons in a plurality of tissues and/or cell types using hybridization to single exon microarrays having a probe with said exon,

wherein a common pattern of expression of said exons in said plurality of tissues and/or cell types indicates that the exons should be assigned to a single gene.

In an ninth aspect of the invention, there is 30 provided a nucleic acid sequence as set out in any of SEQ ID NOs: 1 - 10,283 wherein said sequence encodes a peptide.

In a tenth aspect of the invention, there is provided a peptide encoded by a sequence comprising a sequence as set out in any of SEQ ID NOs: 5,203 - 10,283, or a complementary sequence or coding portion thereof.

In a preferred embodiment, a peptide may be encoded by a sequence comprising a sequence set out in any of SEQ ID NOS.: 1 -5,202.

In a further aspect, the invention provides 5 peptides comprising an amino acid sequence translated from the DNA fragments, said amino acid sequences comprising SEQ ID NOS.: 10,283 - 15,322.

Accordingly in a eleventh aspect of the invention there is provided a peptide comprising a sequence as set 10 out in any of SEQ ID NOs: 10,284 - 15,322, or fragment . thereof.

In another aspect, the invention provides means for displaying annotated sequence, and in particular, for displaying sequence annotated according to the methods and 15 apparatus of the present invention. Further, such display can be used as a preferred graphical user interface for electronic search, query, and analysis of such annotated sequence.

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## Detailed Description of the Invention

#### Definitions

As used herein, the term "microarray" and phrase 25 "nucleic acid microarray" refer to a substrate-bound collection of plural nucleic acids, hybridization to each of the plurality of bound nucleic acids being separately detectable. The substrate can be solid or porous, planar or non-planar, unitary or distributed.

As so defined, the term "microarray" and phrase "nucleic acid microarray" include all the devices so called in Schena (ed.), DNA Microarrays: A Practical Approach (Practical Approach Series), Oxford University Press (1999) (ISBN: 0199637768); Nature Genet. 21(1)(suppl):1 - 60

(1999); and Schena (ed.), Microarray Biochip: Tools and Technology, Eaton Publishing Company/BioTechniques Books Division (2000) (ISBN: 1881299376). As so defined, the term "microarray" and phrase "nucleic acid microarray" further include substrate-bound collections of plural nucleic acids in which the nucleic acids are distributably disposed on a plurality of beads, rather than on a unitary planar substrate, as is described, inter alia, in Brenner et al., Proc. Natl. Acad. Sci. USA 97(4):166501670 (2000); in such case, the term "microarray" and phrase "nucleic acid microarray" refer to the plurality of beads in

aggregate.

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As used herein with respect to a nucleic acid microarray, the term "probe" refers to the nucleic acid that is, or is intended to be, bound to the substrate; in such context, the term "target" thus refers to nucleic acid intended to be bound thereto by Watson-Crick complementarity. As used herein with respect to solution phase hybridization, the term "probe" refers to the nucleic acid of known sequence that is detectably labeled.

As used herein, the expression "probe comprising SEQ ID NO.", and variants thereof, intends a nucleic acid probe, at least a portion of which probe has either (i) the sequence directly as given in the referenced SEQ ID NO., or (ii) a sequence complementary to the sequence as given in the referenced SEQ ID NO., the choice as between sequence directly as given and complement thereof dictated by the requirement that the probe hybridize to mRNA.

As used herein, the term "ORF" refers to a
nucleic acid sequence that, in at least one reading frame,
does not possess stop codons; the term does not require
that the ORF encode the entirety of a natural protein. In
the absence of a consensus prediction, all six frames of an
exon are examined for stop codons and the longest ORF is

selected.

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As used herein, the term "amplicon" refers to a PCR product amplified from human genomic DNA, containing the predicted exon.

As used herein the term "exon" refers to the consensus prediction of the various exon and gene predicting algorithms.

As used herein, the term "peptide" refers to a sequence of amino acids. The sequences referred to as 10 PEPTIDE SEQ ID NOS.: are the predicted peptide sequences that would be translated from one of the exons, or a portion thereof set out in exon SEQ ID NOS.:. The codons encoding the peptide are wholly contained within the exon.

As used herein, a "portions" of a defined nucleotide sequence or sequences can be and, preferably, are fragments unique to that sequence or to one or a combination of those sequences. A fragment unique to a nucleic acid molecule is one that is a signature for the larger nucleic acid molecule.

As used herein, the phrase "expression of a probe" and its linguistic variants means that the ORF present within the probe, or its complement, is present within a target mRNA.

As used herein, "stringent conditions" refers to 25 parameters well known to those skilled in the art. When a nucleic acid molecule is said to be hybridisable to another of a given sequence under "stringent conditions" it is meant that it is homologous to the given sequence.

As used herein, the phrase "specific binding 30 pair" intends a pair of molecules that bind to one another with high specificity. Binding pairs are said to exhibit specific binding when they exhibit avidity of at least 107, preferably at least 108, more preferably at least 109 liters/mole. Nonlimiting examples of specific binding pairs are: antibody and antigen; biotin and avidin; and

biotin and streptavidin.

As used herein with respect to the visual display of annotated genomic sequence, the term "rectangle" means any geometric shape that has at least a first and a second border, wherein the first and second borders each are capable of mapping uniquely to a point of another visual object of the display.

As used herein, a "Mondrian" means a visual display in which a single genomic sequence is annotated with predicted and experimentally confirmed functional information.

#### Brief Description of the Drawings

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The present invention is further illustrated with reference to the following non-limiting figures and examples in which:

- FIG. 1 illustrates a process for predicting

  functional regions from genomic sequence, confirming the
  functional activity of such regions experimentally, and
  associating and displaying the data so obtained in
  meaningful and useful relationship to the original sequence
  data;
- FIG. 2 further elaborates that portion of the process schematized in FIG. 1 for predicting functional regions from genomic sequence;
- FIG. 3 illustrates a Mondrian visual display;
  FIG. 4 presents a Mondrian showing a hypothetical
  annotated genomic sequence;
  - FIG. 5 is a histogram showing the distribution of ORF length and PCR products as obtained, with ORF length shown in black and PCR product length shown in dotted lines;
    - FIG. 6 is a histogram showing the distribution,

among exons predicted according to the methods described, of expression as measured using simultaneous two color hybridization to a genome-derived single exon microarray. The graph shows the number of sequence-verified products that were either not expressed ("0"), expressed in one or more but not all tested tissues ("1" - "9"), or expressed in all tissues tested ("10");

FIG. 7 is a pictorial representation of the expression of verified sequences that showed expression with signal intensity greater than 3 in at least one tissue, with: FIG. 7A showing the expression as measured by microarray hybridization in each of the 10 measured tissues, and the expression as measured "bioinformatically" by query of EST, NR and SwissProt databases; with FIG. 7B showing the legend for display of physical expression (ratio) in FIG. 7A; and with FIG. 7C showing the legend for scoring EST hits as depicted in FIG. 7A;

rIG. 8 shows a comparison of normalized CY3
signal intensity for arrayed sequences that were identical
to sequences in existing EST, NR and SwissProt databases or
that were dissimilar (unknown), where black denotes the
signal intensity for all sequence-verified products with a
BLAST Expect ("E") value of greater than 1e-30 (1 x 10<sup>-30</sup>)
("unknown") and a dotted line denotes sequence-verified
spots with a BLAST expect ("E") value of less than 1e-30 (1
x 10<sup>-30</sup>)("known");

FIG. 9 presents a Mondrian of BAC AC008172 (bases 25,000 to 130,000), containing the carbamyl phosphate synthetase gene (AF154830.1); and

FIG. 10 is a Mondrian of BAC A049839.

Methods and Apparatus for Predicting, Confirming,

Annotating, and Displaying Functional Regions From Genomic

Sequence Data

FIG. 1 is a flow chart illustrating in broad outline a process for predicting functional regions from genomic sequence, confirming and characterizing the functional activity of such regions experimentally, and then associating and displaying the information so obtained in meaningful and useful relationship to the original sequence data.

The initial input into process 10 of the present
invention is drawn from one or more databases 100
containing genomic sequence data. Because genomic sequence
is usually obtained from subgenomic fragments, the sequence
data typically will be stored in a series of records
corresponding to these subgenomic sequenced fragments.

Some fragments will have been catenated to form larger
contiguous sequences ("contigs"); others will not. A
finite percentage of sequence data in the database will
typically be erroneous, consisting inter alia of vector
sequence, sequence created from aberrant cloning events,
sequence of artificial polylinkers, and sequence that was
erroneously read.

Each sequence record in database 100 will minimally contain as annotation a unique sequence identifier (accession number), and will typically be annotated further to identify the date of accession, species of origin, and depositor. Because database 100 can contain nongenomic sequence, each sequence will typically be annotated further to permit query for genomic sequence. Chromosomal origin, optionally with map location, can also be present. Data can be, and over time increasingly will be, further annotated with additional information, in part through use of the present invention, as described below. Annotation can be present within the data records, in information external to database 100 and linked to the

records thereto, or through a combination of the two.

Databases useful as genomic sequence database 100 in the present invention include GenBank, and particularly include several divisions thereof, including the 5 htgs(draft), NT (nucleotide, command line), and NR (nonredundant) divisions. GenBank is produced by the National Institutes of Health and is maintained by the National Center for Biotechnology Information (NCBI). Databases of genomic sequence from species other than 10 human, such as mouse, rat, Arabidopsis, C. elegans, C. brigsii, Drosophila, zebra fish, and other higher eukaryotic organisms will also prove useful as genomic sequence database 100.

Genomic sequence obtained by query of genomic

sequence database 100 is then input into one or more

processes 200 for identification of regions therein that

are predicted to have a biological function as specified by

the user. Such functions include, but are not limited to,

encoding protein, regulating transcription, regulating

message transport after transcription into mRNA, regulating

message splicing after transcription into mRNA, of

regulating message degradation after transcription into

mRNA, and the like. Other functions include directing

somatic recombination events, contributing to chromosomal

stability or movement, contributing to allelic exclusion or

X chromosome inactivation, and the like.

The particular genomic sequence to be input into process 200 will depend upon the function for which relevant sequence is to be identified as well as upon the approach chosen for such identification. Process step 200 can be iterated to identify different functions within a given genomic region. In such case, the input often will be different for the several iterations.

Sequences predicted to have the requisite

function by process 200 are then input into process 300, where a subset of the input sequences suitable for experimental confirmation is identified. Experimental confirmation can involve physical and/or bioinformatic assay. Where the subsequent experimental assay is bioinformatic, rather than physical, there are fewer constraints on the sequences that can be tested, and in this latter case therefore process 300 can output the entirety of the input sequence.

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The subset of sequences output from process 300 is then used in process 400 for experimental verification and characterization of the function predicted in process 200, which experimental verification can, and often will, include both physical and bioinformatic assay.

Process 500 annotates the sequence data with the functional information obtained in the physical and/or bioinformatic assays of process 400. Such annotation can be done using any technique that usefully relates the functional information to the sequence, as, for example, by incorporating the functional data into the sequence data record itself, by linking records in a hierarchical or relational database, by linking to external databases, by a combination thereof, or by other means well known within the database arts. The data can even be submitted for 25 incorporation into databases maintained by others, such as GenBank, which is maintained by NCBI.

As further noted in FIG. 1, additional annotation can be input into process 500 from external sources 600.

The annotated data is then displayed in process 800, either before, concomitantly with, or after optional storage 700 on nontransient media, such as magnetic disk, optical disc, magnetooptical disk, flash memory, or the like.

FIG. 1 shows that the experimental data output 35 from process 400 can be used in each preceding step of

process 10: e.g., facilitating identification of functional sequences in process 200, facilitating identification of an experimentally suitable subset thereof in process 300, and facilitating creation of physical and/or informational 5 substrates for, and performance of subsequent assay, of functional sequences in process 400.

Information from each step can be passed directly to the succeeding process, or stored in permanent or interim form prior to passage to the succeeding process.

10 Often, data will be stored after each, or at least a plurality, of such process steps. Any or all process steps can be automated.

FIG. 2 further elaborates the prediction of functional sequence within genomic sequence according to 15 process 200.

Genomic sequence database 100 is first queried 20 for genomic sequence.

The sequence required to be returned by query 20 will depend, in the first instance, upon the function to be identified.

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For example, genomic sequences that function to encode protein can be identified inter alia using gene prediction approaches, comparative sequence analysis approaches, or combinations of the two. In gene prediction 25 analysis, sequence from one genome is input into process 200 where at least one, preferably a plurality, of algorithmic methods are applied to identify putative coding regions. In comparative sequence analysis, by contrast, corresponding, e.g., syntenic, sequence from a plurality of 30 sources, typically a plurality of species, is input into process 200, where at least one, possibly a plurality, of algorithmic methods are applied to compare the sequences and identify regions of least variability.

The exact content of query 20 will also depend

upon the database queried. For example, if the database contains both genomic and nongenomic sequence, perhaps derived from multiple species, and the function to be determined is protein coding regions in human genomic sequence, the query will accordingly require that the sequence returned be genomic and derived from humans.

Query 20 can also incorporate criteria that compel return of sequence that meets operative requirements of the subsequent analytical method. Alternatively, or in addition, such operative criteria can be enforced in subsequent preprocess step 24.

For example, if the function sought to be identified is protein coding, query 20 can incorporate criteria that return from genomic sequence database 100 only those sequences present within contigs sufficiently long as to have obviated substantial fragmentation of any given exon among a plurality of separate sequence fragments.

Such criteria can, for example, consist of a
required minimal individual genomic sequence fragment
length, such as 10 kb, more typically 20 kb, 30 kb, 40kb,
and preferably 50 kb or more, as well as an optional
further or alternative requirement that sequence from any
given clone, such as a bacterial artificial chromosome
("BAC"), be presented in no more than a finite maximal
number of fragments, such as no more than 20 separate
pieces, more typically no more than 15 fragments, even more
typically no more than about 10 - 12 fragments.

Results using the present invention have shown
that genomic sequence from bacterial artificial chromosomes
(BACs) is sufficient for gene prediction analysis according
to the present invention if the sequence is at least 50 kb
in length, and if additionally the sequence from any given
BAC is presented in fewer than 15, and preferably fewer
than 10, fragments. Accordingly, query 20 can incorporate

a requirement that data accessioned from BAC sequencing be in fewer than 15, preferably fewer than 10, fragments.

An additional criterion that can be incorporated into the query can be the date, or range of dates, of sequence accession. Although the process has been described above as if genomic sequence database 100 were static, it is of course understood that the genomic sequence databases need not be static, and indeed are typically updated on a frequent, even hourly, basis. Thus as further described in Examples 1 and 2, infra, it is possible to query the database for newly added sequence, either newly added after an absolute date, or newly added relative to a prior analysis performed using the methods and apparatus of the present invention. In this way, the process herein described can incorporate a dynamic, temporal component.

One utility of such temporal limitation is to identify, from newly accessioned genomic sequence, the presence of novel genes, particularly those not previously identified by EST sequencing (or other sequencing efforts that are similarly based upon gene expression). As further described in Example 1, such an approach has shown that newly accessioned human genomic sequence, when analyzed for sequences that function to encode protein, readily identifies genes that are novel over those in existing EST and other expression databases. This makes the methods of the present invention extremely powerful gene discovery tools. And as would be appreciated, such gene discovery can be performed using genomic sequence from species other than human.

If query 20 incorporates multiple criteria, such as above-described, the multiple criteria can be performed as a series of separate queries or as a single query, depending in part upon the query language, the complexity

of the query, and other considerations well known in the database arts.

If query 20 returns no genomic sequence meeting the query criteria, the negative result can be reported by process 22, and process 200 (and indeed, entire process 10) ended 23, as shown. Alternatively, or in addition to report and termination of the initial inquiry, a new query 20 can be generated that takes into account the initial negative result.

When query 20 returns sequence meeting the query criteria, the returned sequence is then passed to optional preprocessing 24, suitable and specific for the desired analytical approach and the particular analytical methods thereof to be used in process 25.

Preprocessing 24 can include processes suitable for many approaches and methods thereof, as well as processes specifically suited for the intended subsequent analysis.

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Preprocessing 24 suitable for most approaches and 20 methods will include elimination of sequence irrelevant to, or that would interfere with, the subsequent analysis. Such sequence includes repetitive sequence, such as Alu repeats and LINE elements, vector sequence, artificial sequence, such as artificial polylinkers, and the like.

25 Such removal can readily be performed by identification and

subsequent masking of the undesired sequence.

Identification can be effected by comparing the genomic sequence returned by query 20 with public or private databases containing known repetitive sequence, sequence, artificial sequence, and other artifactual sequence. Such comparison can readily be done using programs well known in the art, such as CROSS\_MATCH, or by proprietary sequence comparison programs the engineering of which is well within the skill in the art.

Alternatively, or in addition, undesirable,

including artifactual, sequence can be identified algorithmically without comparison to external databases For example, synthetic polylinker and thereafter removed. sequence can be identified by an algorithm that identifies 5 a significantly higher than average density of known restriction sites. As another example, vector sequence can be identified by algorithms that identify nucleotide or codon usage at variance with that of the bulk of the genomic sequence.

Once identified, undesired sequence can be Removal can usefully be done by masking the removed. undesired sequence as, for example, by converting the specific nucleotide references to one that is unrecognized by the subsequent bioinformatic algorithms, such as "X". 15 Alternatively, but at present less preferred, the undesired sequence can be excised from the returned genomic sequence, leaving gaps.

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Preprocessing 24 can further include selection from among duplicative sequences of that one sequence of 20 highest quality. Higher quality can be measured as a lower percentage of, fewest number of, or least densely clustered occurrence of ambiguous nucleotides, defined as those nucleotides that are identified in the genomic sequence using symbols indicating ambiguity. Higher quality can 25 also or alternatively be valued by presence in the longest contig.

Preprocessing 24 can, and often will, also include formatting of the data as specifically appropriate for passage to the analytical algorithms of process 25. Such formatting can and typically will include, inter alia, addition of a unique sequence identifier, either derived from the original accession number in genomic sequence database 100, or newly applied, and can further include additional annotation. Formatting can include conversion

from one to another sequence listing standard, such as conversion to or from FASTA or the like, depending upon the input expected by the subsequent process.

Preprocessing, which can be optional depending 5 upon the function desired to be identified and the informational requirements of the methods for effecting such identification, is followed by sequence processing 25, where sequences with the desired function are identified within the genomic sequence.

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As mentioned above, such functions can include, but are not limited to, encoding protein, regulating transcription, regulating message transport after transcription into mRNA, regulating message splicing after transcription, of regulating message degradation, and the like. Other functions include directing somatic 15 recombination events, contributing to chromosomal stability or movement, contributing to allelic exclusion or X chromosome inactivation, or the like.

The methods of the present invention are particularly useful for gene discovery, that is, for identifying, from genomic sequence, regions that function to encode genes, and in a particularly useful embodiment, for identifying regions that function to encode genes not hitherto identified by expression-based or directed cloning and sequencing. In conjunction with verification using the novel single exon microarrays of the present invention, as further described below, the methods herein described become powerful gene discovery tools.

Accordingly, in a preferred embodiment of the 30 present invention, process 25 is used to identify putative coding regions. Two preferred approaches in process 25 for identifying sequence that encodes putative genes are gene prediction and comparative sequence analysis.

Gene prediction can be performed using any of a number of algorithmic methods, embodied in one or more 35

software programs, that identify open reading frames (ORFs) using a variety of heuristics, such as GRAIL, DICTION, and GENEFINDER. Comparative sequence analysis similarly can be performed using any of a variety of known programs that identify regions with lower sequence variability.

As further described in Example 1, below, gene finding software programs yield a range of results. For the newly accessioned human genomic sequence input in Example 1, for example, GRAIL identified the greatest percentage of genomic sequence as putative coding region, 2% of the data analyzed; GENEFINDER was second, calling 1%; and DICTION yielded the least putative coding region, with 0.8% of genomic sequence called as coding region.

Increased reliability can be obtained when

consensus is required among several such methods. Although discussed herein particularly with respect to exon calling, consensus among methods will in general increase reliability of predicting other functions as well.

Thus, as indicated by query 26, sequence
20 processing 25, optionally with preprocessing 24, can be
repeated with a different method, with consensus among such
iterations determined and reported in process 27.

process 27 compares the several outputs for a given input genomic sequence and identifies consensus among the separately reported results. The consensus itself, as well as the sequence meeting that consensus, is then stored in process 29a, displayed in process 29b, and/or output to process 300 for subsequent identification of a subset thereof suitable for assay.

Multiple levels of consensus can be calculated and reported by process 27. For example, as further described in Example 1, infra, process 27 can report consensus as between all specific pairs of methods of gene prediction, as consensus among any one or more of the pairs

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of methods of gene prediction, or as among all of the gene prediction algorithms used. Thus, in Example 1, process 27 reported that GRAIL and GENEFINDER programs agreed on 0.7% of genomic sequence, that GRAIL and DICTION agreed on 0.5% of genomic sequence, and that the three programs together agreed on 0.25% of the data analyzed. Put another way, 0.25% of the genomic sequence was identified by all three of the programs as containing putative coding region.

Furthermore, consensus can be required among different approaches to identifying a chosen function.

For example, if the function desired to be identified is coding of protein sequence, and a first used approach to exon calling is gene prediction, the process can be repeated on the same input sequence, or subset thereof, with another approach, such as comparative sequence analysis. In such a case, where comparative sequence analysis follows gene prediction, the comparison can be performed not only on genomic nucleic acid sequence, but additionally or alternatively can be performed on the predicted amino acid sequence translated from the ORFs prior identified by the gene prediction approach.

Although shown as an iterative process, the multiple analyses required to achieve consensus can be done in series, in parallel, or some combination thereof.

Predicted functional sequence, optionally representing a consensus among a plurality of methods and approaches for determination thereof, is passed to process 300 for identification of a subset thereof for functional assay.

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In the preferred embodiment of the methods of the present invention, wherein the function sought to be identified is protein coding, process 300 is used to identify a subset thereof suitable for experimental verification by physical and/or bioinformatic approaches.

For example, putative ORFs identified in process

200 can be classified, or binned, bioinformatically into putative genes. This binning can be based inter alia upon consideration of the average number of exons/gene in the species chosen for analysis, upon density of exons that 5 have been called on the genomic sequence, and other empirical rules. Thereafter, one or more among the genespecific ORFs can be chosen for subsequent use in gene expression assay.

Where such subsequent gene expression assay uses 10 amplified nucleic acid, considerations such as desired amplicon length, primer synthesis requirements, putative exon length, sequence GC content, existence of possible secondary structure, and the like can be used to identify and select those ORFs that appear most likely successfully 15 to amplify. Where subsequent gene expression assay relies upon nucleic acid hybridization, whether or not using amplified product, further considerations involving hybridization stringency can be applied to identify that subset of sequences that will most readily permit sequence-20 specific discrimination at a chosen hybridization and wash stringency. One particular such consideration is avoidance of putative exons that span repetitive sequence; such sequence can hybridize spuriously to nonspecific message, reducing specific signal in the hybridization.

For bioinformatic assay, there are fewer constraints on the sequences that can be tested experimentally, and in this latter case therefore process 300 can output the entirety of the input sequence.

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The subset of sequences identified by process 300 30 as suitable for use in assay is then used in process 400 to create the physical and/or informational substrate for experimental verification of the predictions made in process 200, and thereafter to assay those substrates.

As mentioned, the methods of the present

invention are particularly useful for identifying potential coding regions within genomic sequence. In a preferred embodiment of process 400, therefore, the expression of the sequences predicted to encode protein is verified. 5 combination of the predictive and experimental methods provides a powerful gene discovery engine.

Thus, in another aspect, the present invention provides methods and apparatus for verifying the expression of putative genes identified within genomic sequence. 10 particular, the invention provides a novel method of verifying gene expression in which expression of predicted ORFs is measured and confirmed using a novel type of nucleic acid microarray, the genome-derived single exon nucleic acid microarrays of the present invention.

Putative ORFs as predicted by a consensus of gene calling, particularly gene prediction, algorithms in process 200, and as further identified as suitable by process 300, are amplified from genomic DNA using the polymerase chain reaction (PCR). Although PCR is 20 conveniently used, other amplification approaches can also be used.

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Amplification schemes can be designed to capture the entirety of each predicted ORF in an amplicon with minimal additional (that is, intronic or intergenic) 25 sequence. Because ORFs predicted from human genomic sequence using the methods of the present invention differ in length, such an approach results in amplicons of varying length.

However, most predicted ORFs are shorter than 500 30 bp in length, and although amplicons of at least about 100 or 200 base pairs can be immobilized as probes on nucleic acid microarrays, early experimental results using the methods of the present invention have suggested that longer amplicons, at least about 400 or 500 base pairs, are more 35 effective. Furthermore, certain advantages derive from

application to the microarray of amplicons of defined size.

Therefore, amplification schemes can alternatively, and preferably, be designed to amplify regions of defined size, preferably at least about 300, 400 or 500 bp, centered about each predicted ORF. Such an approach results in a population of amplicons of limited size diversity, but that typically contain intronic and/or intergenic nucleic acid in addition to putative ORF.

Conversely, somewhat fewer than 10% of ORFs

predicted from human genomic sequence according to the
methods of the present invention exceed 500 bp in length.

Portions of such extended ORFs, preferably at least about
300,400 or 500 bp in length, can be amplified. However, it
has been discovered that the percentage success at

amplifying pieces of such ORFs is low, and that such
putative exons are more effectively amplified when larger
fragments, at least about 1000 or 1500 bp, and even as
large as 2000 bp are amplified.

thus input into one or more primer design programs, such as PRIMER3 (available online for use at http://www-genome.wi.mit.edu/cgi-bin/primer/), with a goal of amplifying at least about 500 base pairs of genomic sequence centered within or about ORFs predicted to be no more than about 500 bp, or at least about 1000 - 1500 bp of genomic sequence for ORFs predicted to exceed 500 bp in length, and the primers synthesized by standard techniques. Primers with the requisite sequences can be purchased commercially or synthesized by standard techniques.

Conveniently, a first predetermined sequence can be added commonly to the ORF-specific 5' primer and a second, typically different, predetermined sequence commonly added to each 3' ORF-unique primer. This serves to immortalize the amplicon, that is, serves to permit further amplification of any amplicon using a single set of

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primers complementary respectively to the common 5' and common 3' sequence elements. The presence of these "universal" priming sequences further facilitates later sequence verification, providing a sequence common to all amplicons at which to prime sequencing reactions. The common 5' and 3' sequences further serve to add a cloning site should any of the ORFs warrant further study.

Such predetermined sequence is usefully at least about 10, 12 or 15 nt in length, and usually does not exceed about 25 nt in length. The "universal" priming sequences used in the examples presented *infra* were each 16 nt long.

The genomic DNA to be used as substrate for amplification will come from the eukaryotic species from 15 which the genomic sequence data had originally been obtained, or a closely related species, and can conveniently be prepared by well known techniques from somatic or germline tissue or cultured cells of the organism. See, e.g., Short Protocols in Molecular Biology 20 : A Compendium of Methods from Current Protocols in Molecular Biology, Ausubel et al. (eds.), 4th edition (April 1999), John Wiley & Sons (ISBN: 047132938X) and Maniatis et al., Molecular Cloning : A Laboratory Manual, 2<sup>nd</sup> edition (December 1989), Cold Spring Harbor Laboratory 25 Press (ISBN: 0879693096). Many such prepared genomic DNAs are available commercially, with the human genomic DNAs additionally having certification of donor informed consent.

Although the intronic and intergenic material

flanking putative coding regions in the amplicons could

potentially interfere with hybridizations during microarray

experiments, we have found, surprisingly, that differential

expression ratios are not significantly affected. Rather,

the predominant effect of exon size is to alter the

absolute signal intensity, rather than its ratio. Equally surprising, the art had suggested that single exon probes would not provide sufficient signal intensity for high stringency hybridization analyses; we find that such probes 5 not only provide adequate signal, but have substantial advantages, as herein described.

After partial purification, as by size exclusion spin column, with or without confirmation as to amplicon quality as by gel electrophoresis, each amplicon (single 10 exon probe) is disposed in an array upon a support substrate.

Methods for creating microarrays by deposition and fixation of nucleic acids onto support substrates are well known in the art (Reviewed by Schena et al., see 15 above).

Typically, the support substrate will be glass, although other materials, such as amorphous or crystalline silicon or plastics. Such plastics include polymethylacrylic, polyethylene, polypropylene, 20 polyacrylate, polymethylmethacrylate, polyvinylchloride, polytetrafluoroethylene, polystyrene, polycarbonate, polyacetal, polysulfone, celluloseacetate, cellulosenitrate, nitrocellulose, or mixtures thereof, can Typically, the support will be rectangular, also be used. 25 although other shapes, particularly circular disks and even spheres, present certain advantages. Particularly advantageous alternatives to glass slides as support substrates for array of nucleic acids are optical discs, as described in WO 98/12559.

The amplified nucleic acids can be attached covalently to a surface of the support substrate or, more typically, applied to a derivatized surface in a chaotropic agent that facilitates denaturation and adherence by presumed noncovalent interactions, or some combination 35 thereof.

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Robotic spotting devices useful for arraying nucleic acids on support substrates can be constructed using public domain specifications (The MGuide, version 2.0, http://cmgm.stanford.edu/pbrown/mguide/index.html), or 5 can conveniently be purchased from commercial sources (MicroArray GenII Spotter and MicroArray GenIII Spotter, Molecular Dynamics, Inc., Sunnyvale, CA). Spotting can also be effected by printing methods, including those using ink jet technology.

As is well known in the art, microarrays typically also contain immobilized control nucleic acids. For controls useful in providing measurements of background signal for the genome-derived single exon microarrays of the present invention, a plurality of E. coli genes can 15 readily be used. As further described in Example 1, 16 or 32 E. coli genes suffice to provide a robust measure of background noise in such microarrays.

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As is well known in the art, the amplified product disposed in arrays on a support substrate to create 20 a nucleic acid microarray can consist entirely of natural nucleotides linked by phosphodiester bonds, or alternatively can include either nonnative nucleotides, alternative internucleotide linkages, or both, so long as complementary binding can be obtained in the hybridization. 25 If enzymatic amplification is used to produce the immobilized probes, the amplifying enzyme will impose certain further constraints upon the types of nucleic acid analogs that can be generated.

Although particularly described herein as using 30 high density microarrays constructed on planar substrates, the methods of the present invention for confirming the expression of ORFs predicted from genomic sequence can use any of the known types of microarrays, as herein defined, including lower density planar arrays, and microarrays on

nonplanar, nonunitary, distributed substrates.

For example, gene expression can be confirmed using hybridization to lower density arrays, such as those constructed on membranes, such as nitrocellulose, nylon, and positively-charged derivatized nylon membranes.

Further, gene expression can also be confirmed using nonplanar, bead-based microarrays such as are described in Brenner et al., Proc. Natl. Acad. Sci. USA 97(4):166501670 (2000); U.S. Patent No. 6,057,107; and U.S. Patent No. 5,736,330. In theory, a packed collection of such beads provides in aggregate a higher density of nucleic acid probe than can be achieved with spotting or lithography techniques on a single planar substrate.

Planar microarrays on solid substrates, however,
provide certain useful advantages, including high
throughput and compatibility with existing readers. For
example, each standard microscope slide can include at
least 1000, typically at least 2000, preferably 5000 and
upto 10,000 - 50,000 or more nucleic acid probes of
discrete sequence. The number of sequences deposited will
depend on their required application.

Each putative gene can be represented in the array by a single predicted ORF. Alternatively, genes can be represented by more than one predicted ORF. For purposes of measuring differential splicing, more than one predicted ORF will be provided for a putative gene. And as is well known in the art, each probe of defined sequence, representing a single predicted ORF, can be deposited in a plurality of locations on a single microarray to provide redundancy of signal.

The genome-derived single exon microarrays described above differ in several fundamental and advantageous ways from microarrays presently used in the gene expression art, including (1) those created by

deposition of mRNA-derived nucleic acids, (2) those created by in situ synthesis of oligonucleotide probes, and (3) those constructed from yeast genomic DNA.

Most nucleic acid microarrays that are in use for study of eukaryotic gene expression have as immobilized probes nucleic acids that are derived — either directly or indirectly — from expressed message. As discussed above, it is common, for example, for such microarrays to be derived from cDNA/EST libraries, either from those previously described in the literature, see Lennon et al., or from the de novo construction of "problem specific" libraries targeted at a particular biological question, R.S. Thomas et al., Cancer Res. (in press). Such microarrays are herein collectively denominated "EST microarrays".

Such EST microarrays by definition can measure expression only of those genes found in EST libraries, shown herein to represent only a fraction of expressed genes. Furthermore, such libraries — and thus microarrays based thereupon — are biased by the tissue or cell type of message origin, by the expression levels of the respective genes within the tissues, and by the ability of the message successfully to have been reverse-transcribed and cloned.

Thus, as further discussed in Example 1, the

methods of the present invention enable sequences that do
not appear in EST or other expression databases to be
determined - subsequently arrayed for expression
measurements could not, therefore, have been represented as
probes on an EST microarray. And as further demonstrated
in the examples, infra, the remaining population of genes
identified from genomic sequence by the methods of the
present invention - that is, the one third of sequences
that had previously been accessioned in EST or other
expression databases - are biased toward genes with higher

expression levels.

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Representation of a message in an EST and/or cDNA library depends upon the successful reverse transcription, optionally but typically with subsequent successful 5 cloning, of the message. This introduces substantial bias into the population of probes available for arraying in EST microarrays.

In contrast, neither reverse transcription nor cloning is required to produce the probes arrayed on the 10 genome-derived single exon microarrays of the present invention. And although the ultimate deposition of a probe on the genome-derived single exon microarray of the present invention depends upon a successful amplification from genomic material, a priori knowledge of the sequence of the 15 desired amplicon affords greater opportunity to recover any given probe sequence recalcitrant to amplification than is afforded by the requirement for successful reverse transcription and cloning of unknown message in EST approaches.

Thus, the genome-derived single exon microarrays of the present invention present a far greater diversity of probes for measuring gene expression, with far less bias, than do EST microarrays presently used in the art.

As a further consequence of their ultimate origin 25 from expressed message, the probes in EST microarrays often contain poly-A (or complementary poly-T) stretches derived from the poly-A tail of mature mRNA. These homopolymeric stretches contribute to cross-hybridization, that is, to a spurious signal occasioned by hybridization to the homopolymeric tail of a labeled cDNA that lacks sequence homology to the gene-specific portion of the probe.

In contrast, the probes arrayed in the genomederived single exon microarrays of the present invention lack homopolymeric stretches derived from message

polyadenylation, and thus can provide more specific signal. Typically, at least about 50, 60 or 75% of the probes on the genome-derived single exon microarrays of the present invention lack homopolymeric regions consisting of A or T, 5 where a homopolymeric region is defined for purposes herein as stretches of 25 or more, typically 30 or more, identical nucleotides.

A further distinction, which also affects the specificity of hybridization, is occasioned by the typical derivation of EST microarray probes from cloned material. Because much of the probe material disposed as probes on EST microarrays is excised or amplified from plasmid, phage, or phagemid vectors, EST microarrays typically include a fair amount of vector sequence, more so when the probes are amplified, rather than excised, from the vector. 15

In contrast, the vast majority of probes in the genome-derived single exon microarrays of the present invention contain no prokaryotic or bacteriophage vector sequence, having been amplified directly or indirectly from Typically, therefore, at least about 50, 60, genomic DNA. 70 or 80% or more of individual exon-including probes disposed on a genome-derived single exon microarray of the present invention lack vector sequence, and particularly lack sequences drawn from plasmids and bacteriophage. 25 Preferably, at least about 85, 90 or more than 90% of exonincluding probes in the genome-derived single exon microarray of the present invention lack vector sequence. With attention to removal of vector sequences through preprocessing 24, percentages of vector-free exon-including probes can be as high as 95 - 99%. The substantial absence of vector sequence from the genome-derived single exon microarrays of the present invention results in greater specificity during hybridization, since spurious crosshybridization to a probe vector sequence is reduced.

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amplification of probes from vectors in construction of EST microarrays, the probes arrayed thereon often contain artificial sequence, derived from vector polylinker multiple cloning sites, at both 5' and 3' ends. The probes disposed upon the genome-derived single exon microarrays need have no such artificial sequence appended thereto.

As mentioned above, however, the ORF-specific primers used to amplify putative ORFs can include artificial sequences, typically 5' to the ORF-specific 10 primer sequence, useful for "universal" (that is, independent of ORF sequence) priming of subsequent amplification or sequencing reactions. When such "universal" 5' and/or 3' priming sequences are appended to the amplification primers, the probes disposed upon the 15 genome-derived single exon microarray will include artificial sequence similar to that found in EST However, the genome-derived single exon microarrays. microarray of the present invention can be made without such sequences, and if so constructed, presents an even smaller amount of nonspecific sequence that would 20 contribute to nonspecific hybridization.

Yet another consequence of typical use of cloned material as probes in EST microarrays is that such microarrays contain probes that result from cloning artifacts, such as chimeric molecules containing coding region of two separate genes. Derived from genomic material, typically not thereafter cloned, the probes of the genome-derived single exon microarrays of the present invention lack such cloning artifacts, and thus provide greater specificity of signal in gene expression measurements.

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A further consequence of the cloned origin of probes on many EST microarrays is that the individual probes often have disparate sizes, which can cause the optimal hybridization stringency to vary among probes on a

single microarray. In contrast, as discussed above, the probes arrayed on the genome-derived single exon microarrays of the present invention can readily be designed to have a narrow distribution in sizes, with the range of probe sizes no greater than about 10% of the average size, typically no greater than about 5% of the average probe size.

Because of their origin from fully- or partially-spliced message, probes disposed upon EST arrays will often include multiple exons. The percentage of such exonspanning probes in an EST microarray can be calculated, on average, based upon the predicted number of exons/gene for the given species and the average length of the immobilized probes. For human genes, the near-complete sequence of human chromosome 22, Dunham et al., Nature 402(6761):489-95 (1999), predicts that human genes average 5.5 exons/gene. Even with probes of 200 - 500 bp, the vast majority of human EST microarray probes include more than one exon.

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In contrast, by virtue of their origin from
20 algorithmically identified ORFs in genomic sequence, the
probes in the genome-derived single exon microarrays of the
present invention can consist of individual exons. Thus,
in contrast to EST microarrays, at least about 50, 60, 70,
75, 80, 85, 95 or 99% of probes deposited in the genome25 derived microarray of the present invention consist of, or
include, no more than one predicted ORF.

This provides the ability, not readily achieved using EST microarrays, to use the genome-derived single exon microarrays of the present invention to measure tissue-specific expression of individual exons, which in turn allows differential splicing events to be detected and characterized, and in particular, allows the correlation of differential splicing to tissue-specific expression patterns.

Furthermore, the exons that are represented in EST microarrays are often biased toward the 3' or 5' end of their respective genes, since sequencing strategies used for EST identification are so biased. In contrast, no such 3' or 5' bias necessarily inheres in the selection of exons for disposition on the genome-derived single exon microarrays of the present invention.

Conversely, the probes provided on the genomederived single exon microarrays of the present invention

10 typically, but need not necessarily, include intronic
and/or intergenic sequence that is absent from EST
microarrays, which are derived from mature mRNA.

Typically, at least about 50, 60, 70, 80 or 90% of the
exon-including probes on the genome-derived single exon

15 microarrays of the present invention include sequence drawn
from noncoding regions. As discussed above, the additional
presence of noncoding region does not significantly
interfere with measurement of gene expression, and provides
the additional opportunity to assay prespliced RNA, and
20 thus measure such phenomena such as nuclear export control.

The genome-derived single exon microarrays of the present invention are also quite different from in situ synthesis microarrays, where probe size is severely constrained by inadequacies in the photolithographic synthesis process.

Typically, probes arrayed on in situ synthesis microarrays are limited to a maximum of about 25 bp. As a well known consequence, hybridization to such chips must be performed at low stringency. In order, therefore, to achieve unambiguous sequence-specific hybridization results, the in situ synthesis microarray requires substantial redundancy, with concomitant programmed arraying for each probe of probe analogues with altered (i.e., mismatched) sequence.

In contrast, the longer probe length of the genome-derived single exon microarrays of the present invention allows much higher stringency hybridization and wash. Typically, therefore, exon-including probes on the genome-derived single exon microarrays of the present invention average at least about 100, 200, 300, 400 or 500 bp in length. By obviating the need for substantial probe redundancy, this approach permits a higher density of probes for discrete exons or genes to be arrayed on the microarrays of the present invention than can be achieved for in situ synthesis microarrays.

A further distinction is that the probes in in situ synthesis microarrays typically are covalently linked to the substrate surface. In contrast, the probes disposed on the genome-derived microarray of the present invention typically are, but need not necessarily be, bound noncovalently to the substrate.

Furthermore, the short probe size on in situ microarrays causes large percentage differences in the melting temperature of probes hybridized to their complementary target sequence, and thus causes large percentage differences in the theoretically optimum stringency across the array as a whole.

In contrast, the larger probe size in the
25 microarrays of the present invention create lower
percentage differences in melting temperature across the
range of arrayed probes.

A further significant advantage of the microarrays of the present invention over in situ synthesized arrays is that the quality of each individual probe can be confirmed before deposition. In contrast, the quality of probes cannot be assessed on a probe-by-probe basis for the in situ synthesized microarrays presently being used.

The genome-derived single exon microarrays of the present invention are also distinguished over, and present substantial benefits over, the genome-derived microarrays from lower eukaryotes such as yeast. Lashkari et al.,

5 Proc. Natl. Acad. Sci. USA 94:13057-13062 (1997).

genes in Saccharomyces cerevisiae — that is, only about 4
- 5% — have standard, spliceosomal, introns, Lopez et al.,
Nucl. Acids Res. 28:85-86 (2000); Spingola et al., RNA

10 5(2):221-34 (1999). Furthermore, the entire yeast genome
has already been sequenced. These two facts permit the
ready amplification and disposition of single-ORF amplicons
on such microarray without the requirement for antecedent
use of gene prediction and/or comparative sequence
15 analyses.

Thus, a significant aspect of the present invention is the ability to identify and to confirm expression of predicted coding regions in genomic sequence drawn from eukaryotic organisms that have a higher percentage of genes having introns than do yeast such as Saccharomyces cerevisiae, particularly in genomic sequence drawn from eukaryotes in which at least about 10, 20 or 50% of protein-encoding genes have introns. In preferred embodiments, the methods and apparatus of the present invention are used to identify and confirm expression of novel genes from genomic sequence of eukaryotes in which the average number of introns per gene is at least about one, two or three or more.

After the physical substrate is prepared, 30 experimental verification of predicted function is performed.

In a preferred embodiment of the present invention, where the function sought to be identified in genomic sequence is protein coding, experimental

verification is performed by measuring expression of the putative ORFs, typically through nucleic acid hybridization experiments, and in particularly preferred embodiments, through hybridization to genome-derived single exon microarrays prepared as above- described.

for each probe in the microarray as a ratio of the expression measured concurrently in a plurality of mRNA sources, according to techniques well known in the microarray art, Reviewed in Schena et al., and as further described in Example 2, below. The mRNA source for the reference against which specific expression is measured can be drawn from a homogeneous mRNA source, such as a single cultured cell-type, or alternatively can be heterogeneous, as from a pool of mRNA derived from multiple tissues and/or cell types, as further described in Example 2, infra.

mRNA can be prepared by standard techniques, see Ausubel et al. and Maniatis et al., or purchased The mRNA is then typically reversecommercially. 20 transcribed in the presence of labeled nucleotides: the index source (that in which expression is desired to be measured) is reverse transcribed in the presence of nucleotides labeled with a first label, typically a fluorophore (fluorochrome; fluor; fluorescent dye); the 25 reference source is reverse transcribed in the presence of a second label, typically a fluorophore, typically fluorometrically-distinguishable from the first label. further described in Example 2, infra, Cy3 and Cy5 dyes prove particularly useful in these methods. After partial 30 purification of the index and reference targets, hybridization to the probe array is conducted according to standard techniques, typically under a coverslip.

After wash, microarrays are conveniently scanned using a commercial microarray scanning device, such as a

Gen3 Scanner (Molecular Dynamics, Sunnyvale, CA). Data on expression is then passed, with or without interim storage, to process 500, where the results for each probe are related to the original sequence.

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Often, hybridization of target material to the genome-derived single exon microarray will identify certain of the probes thereon as of particular interest. is often desirable that the user be able readily to obtain sufficient quantities of an individual probe, either for 10 subsequent arrayed deposition upon an additional support substrate, often as part of a microarray having a plurality of probes so identified, or alternatively or additionally as a solitary solid-phase or solution-phase probe, for further use.

Thus, in another aspect, the present invention provides compositions and kits for the ready production of nucleic acids identical in sequence to, or substantially identical in sequence to, probes on the genome-derived single exon microarrays of the present invention.

In this aspect, a small quantity of each probe is disposed, typically without attachment to substrate, in a spatially-addressable ordered set, typically one per well of a microtiter dish. Although a 96 well microtiter plate can be used, greater efficiency is obtained using higher 25 density arrays, such as are provided by microtiter plates having 384, 864, 1536, 3456, 6144, or 9600 wells, and although microtiter plates having physical depressions (wells) are conveniently used, any device that permits addressable withdrawal of reagent from fluidly-30 noncommunicating areas can be used.

In this aspect of the invention, therefore, a fluidly noncommunicating addressable ordered set of individual probes, corresponding to those on a genomederived single exon microarray, is provided, with each 35 probe in sufficient quantity to permit amplification, such as by PCR. As earlier mentioned, the ORF-specific 5' primers used for genomic amplification can have a first common sequence added thereto, and the ORF-specific 3' primers used for genomic amplification can have a second, different, common sequence added thereto, thus permitting, in this preferred embodiment, the use of a single set of 5' and 3' primers to amplify any one of the probes from the amplifiable ordered set.

Each discrete amplifiable probe can also be
10 packaged with amplification primers, solutes, buffers,
etc., and can be provided in dry (e.g., lyophilized) form
or wet, in the latter case typically with addition of
agents that retard evaporation.

In another aspect of the present invention, a

genome-derived single-exon microarray is packaged together
with such an ordered set of amplifiable probes
corresponding to the probes, or one or more subsets of
probes, thereon. In alternative embodiments, the ordered
set of amplifiable probes is packaged separately from the
genome-derived single exon microarray.

In some embodiments, the microarray and/or ordered probe set are further packaged with recordable media that provide probe identification and addressing information, and that can additionally contain annotation information, such as gene expression data. Such recordable media can be packaged with the microarray, with the ordered probe set, or with both.

If the microarray is constructed on a substrate that incorporates recordable media, such as is described in international patent application no. WO 98/12559, then separate packaging of the genome-derived single exon microarray and the bioinformatic information is not required.

The amount of amplifiable probe material should

be sufficient to permit at least one amplification sufficient for subsequent hybridization assay.

Although the use of high density genome-derived microarrays on solid planar substrates is presently a preferred approach for the physical confirmation and characterization of the expression of sequences predicted to encode protein, other types of microarrays (as herein defined) can also be used.

Furthermore, as earlier mentioned, experimental verification of the function predicted from genomic sequence in process 200 can be bioinformatic, rather than, or additional to, physical verification.

For example, where the function desired to be identified is protein coding, the predicted ORFs can be compared bioinformatically to sequences known or suspected of being expressed.

Thus, the sequences output from process 300 (or process 200), can be used to query expression databases, such as EST databases, SNP ("single nucleotide 20 polymorphism") databases, known cDNA and mRNA sequences, SAGE ("serial analysis of gene expression") databases, and more generalized sequence databases that allow query for expressed sequences. Such query can be done by any sequence query algorithm, such as BLAST ("basic local The results of such query -25 alignment search tool"). including information on identical sequences and information on nonidentical sequences that have diffuse or focal regions of sequence homology to the query sequence can then be passed directly to process 500, or used to 30 inform analyses subsequently undertaken in process 200, process 300, or process 400.

Experimental data, whether obtained by physical or bioinformatic assay in process 400, is passed to process 500 where it is usefully related to the sequence data

itself, a process colloquially termed "annotation". Such

annotation can be done using any technique that usefully relates the functional information to the sequence, as, for example, by incorporating the functional data into the record itself, by linking records in a hierarchical or relational database, by linking to external databases, or by a combination thereof. Such database techniques are well within the skill in the art.

The annotated sequence data can be stored locally, uploaded to genomic sequence database 100, and/or displayed 800.

The methods and apparatus of the present invention rapidly produce functional information from genomic sequence. Coupled with the escalating pace at which sequence now accumulates, the rapid pace of sequence annotation produces a need for methods of displaying the information in meaningful ways.

FIG. 3 shows visual display 80 presenting a single genomic sequence annotated according to the present invention. Because of its nominal resemblance to artistic works of Piet Mondrian, visual display 80 is alternatively described herein as a "Mondrian".

Each of the visual elements of display 80 is aligned with respect to the genomic sequence being annotated (hereinafter, the "annotated sequence"). Given the number of nucleotides typically represented in an annotated sequence, representation of individual nucleotides would rarely be readable in hard copy output of display 80. Typically, therefore, the annotated sequence is schematized as rectangle 89, extending from the left border of display 80 to its right border. By convention herein, the left border of rectangle 89 represents the first nucleotide of the sequence and the right border of rectangle 89 represents the last nucleotide of the sequence.

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visual display of annotated sequence can serve as a convenient graphical user interface for computerized representation, analysis, and query of information stored electronically. For such use, the individual nucleotides can conveniently be linked to the X axis coordinate of rectangle 89. This permits the annotated sequence at any point within rectangle 89 readily to be viewed, either automatically — for example, by time-delayed appearance of a small overlaid window upon movement of a cursor or other pointer over rectangle 89 — or through user intervention, as by clicking a mouse or other pointing device at a point in rectangle 89.

Visual display 80 is generated after user specification of the genomic sequence to be displayed. Such specification can consist of or include an accession number for a single clone (e.g., a single BAC accessioned into GenBank), wherein the starting and stopping nucleotides are thus absolutely identified, or alternatively can consist of or include an anchor or fulcrum point about which a chosen range of sequence is 20 anchored, thus providing relative endpoints for the sequence to be displayed. For example, the user can anchor such a range about a given chromosomal map location, gene name, or even a sequence returned by query for similarity or identity to an input query sequence. When visual display 80 is used as a graphical user interface to computerized data, additional control over the first and last displayed nucleotide will typically be dynamically selectable, as by use of standard zooming and/or selection tools. 30

Field 81 of visual display 80 is used to present the output from process 200, that is, to present the bioinformatic prediction of those sequences having the desired function within the genomic sequence. Functional sequences are typically indicated by at least one rectangle 83 (83a, 83b, 83c), the left and right borders of which respectively indicate, by their X-axis coordinates, the starting and ending nucleotides of the region predicted to have function.

Where a single bioinformatic method or approach identifies a plurality of regions having the desired function, a plurality of rectangles 83 is disposed horizontally in field 81. Where multiple methods and/or approaches are used to identify function, each such method and/or approach can be represented by its own series of horizontally disposed rectangles 83, each such horizontally disposed series of rectangles offset vertically from those representing the results of the other methods and approaches.

Thus, rectangles 83a in FIG. 3 represent the functional predictions of a first method of a first approach for predicting function, rectangles 83b represent the functional predictions of a second method and/or second approach for predicting that function, and rectangles 83c represent the predictions of a third method and/or approach.

Where the function desired to be identified is protein coding, field 81 is used to present the

25 bioinformatic prediction of sequences encoding protein.

For example, rectangles 83a can represent the results from GRAIL or GRAIL II, rectangles 83b can represent the results from GENEFINDER, and rectangles 83c can represent the results from DICTION.

Optionally, and preferably, rectangles 83 collectively representing predictions of a single method and/or approach are identically colored and/or textured, and are distinguishable from the color and/or texture used for a different method and/or approach.

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Alternatively, or in addition, the color, hue,

density, or texture of rectangles 83 can be used further to report a measure of the bioinformatic reliability of the prediction. For example, many gene prediction programs will report a measure of the reliability of prediction. 5 Thus, increasing degrees of such reliability can be indicated, e.g., by increasing density of shading. Where display 80 is used as a graphical user interface, such measures of reliability, and indeed all other results output by the program, can additionally or alternatively be 10 made accessible through linkage from individual rectangles 83, as by time-delayed window ("tool tip" window), or by pointer (e.g., mouse) -activated link.

As earlier described, increased predictive reliability can be achieved by requiring consensus among 15 methods and/or approaches to determining function. field 81 can include a horizontal series of rectangles 83 that indicate one or more degrees of consensus in predictions of function.

Although FIG. 3 shows three series of 20 horizontally disposed rectangles in field 81, display 80 can include as few as one such series of rectangles and as many as can discriminably be displayed, depending upon the number of methods and/or approaches used to predict a given function.

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Furthermore, field 81 can be used to show predictions of a plurality of different functions. However, the increased visual complexity occasioned by such display makes more useful the ability of the user to select a single function for display. When display 80 is used as 30 a graphical user interface for computer query and analysis, such function can usefully be indicated and userselectable, as by a series of graphical buttons or tabs (not shown in FIG. 3).

Rectangle 89 is shown in FIG. 3 as including

interposed rectangle 84. Rectangle 84 represents the portion of annotated sequence for which predicted functional information has been assayed physically, with the starting and ending nucleotides of the assayed material indicated by the X axis coordinates of the left and right borders of rectangle 84. Rectangle 85, with optional inclusive circles 86 (86a, 86b, and 86c) displays the results of such physical assay.

Although a single rectangle 84 is shown in FIG.

3, physical assay is not limited to just one region of annotated genomic sequence. It is expected that an increasing percentage of regions predicted to have function by process 200 will be assayed physically, and that display 80 will accordingly, for any given genomic sequence, have an increasing number of rectangles 84 and 85, representing an increased density of sequence annotation.

Where the function desired to be identified is protein coding, rectangle 84 identifies the sequence of the probe used to measure expression. In embodiments of the present invention where expression is measured using genome-derived single exon microarrays, rectangle 84 identifies the sequence included within the probe immobilized on the support surface of the microarray. As noted supra, such probe will often include a small amount of additional, synthetic, material incorporated during amplification and designed to permit reamplification of the probe, which sequence is typically not shown in display 80.

Rectangle 87 is used to present the results of bioinformatic assay of the genomic sequence. For example,
where the function desired to be identified is protein coding, process 400 can include bioinformatic query of expression databases with the sequences predicted in process 200 to encode exons. And as earlier discussed, because bioinformatic assay presents fewer constraints than

does physical assay, often the entire output of process 200 can be used for such assay, without further subsetting thereof by process 300. Therefore, rectangle 87 typically need not have separate indicators therein of regions submitted for bioinformatic assay; that is, rectangle 87 typically need not have regions therein analogous to rectangles 84 within rectangle 89.

Rectangle 87 as shown in FIG. 3 includes smaller rectangles 880 and 88. Rectangles 880 indicate regions

10 that returned a positive result in the bioinformatic assay, with rectangles 88 representing regions that did not return such positive results. Where the function desired to be predicted and displayed is protein coding, rectangles 880 indicate regions of the predicted exons that identify sequence with significant similarity in expression databases, such as EST, SNP, SAGE databases, with rectangles 88 indicating genes novel over those identified in existing expression data bases.

Rectangles 880 can further indicate, through color, shading, texture, or the like, additional information obtained from bioinformatic assay.

For example, where the function assayed and displayed is protein coding, the degree of shading of rectangles 880 can be used to represent the degree of sequence similarity found upon query of expression databases. The number of levels of discrimination can be as few as two (identity, and similarity, where similarity has a user-selectable lower threshold). Alternatively, as many different levels of discrimination can be indicated as can visually be discriminated.

Where display 80 is used as a graphical user interface, rectangles 880 can additionally provide links directly to the sequences identified by the query of expression databases, and/or statistical summaries thereof.

35 As with each of the precedingly-discussed uses of display

80 as a graphical user interface, it should be understood that the information accessed via display 80 need not be resident on the computer presenting such display, which often will be serving as a client, with the linked information resident on one or more remotely located servers.

Rectangle 85 displays the results of physical assay of the sequence delimited by its left and right borders.

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Rectangle 85 can consist of a single rectangle, thus indicating a single assay, or alternatively, and increasingly typically, will consist of a series of rectangles (85a, 85b, 85c) indicating separate physical assays of the same sequence.

Where the function assayed is gene expression, and where gene expression is assayed as herein described using simultaneous two-color fluorescent detection of hybridization to genome-derived single exon microarrays, individual rectangles 85 can be colored to indicate the 20 degree of expression relative to control. Conveniently, shades of green can be used to depict expression in the sample over control values, and shades of red used to depict expression less than control, corresponding to the spectra of the Cy3 and Cy5 dyes conventionally used for 25 respective labeling thereof. Additional functional information can be provided in the form of circles 86 (86a, 86b, 86c), where the diameter of the circle can be used to indicate expression intensity. As discussed infra, such relative expression (expression ratios) and absolute 30 expression (signal intensity) can be expressed using normalized values.

Where display 80 is used as a graphical user interface, rectangle 85 can be used as a link to further information about the assay. For example, where the assay is one for gene expression, each rectangle 85 can be used to link to information about the source of the hybridized mRNA, the identity of the control, raw or processed data from the microarray scan, or the like.

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FIG. 4 is rendition of display 80 representing gene prediction and gene expression for a hypothetical BAC, showing conventions used in the Examples presented infra. BAC sequence ("Chip seq.") 89 is presented, with the physically assayed region thereof (corresponding to Algorithmic gene 10 rectangle 84 in FIG. 3) shown in white. predictions are shown in field 81, with predictions by GRAIL shown, predictions by GENEFINDER, and predictions by DICTION shown. Within rectangle 87, regions of sequence that, when used to query expression databases, return identical or similar sequences ("EST hit") are shown as 15 white rectangles (corresponding to rectangles 880 in FIG. 3), gray indicates low homology, and black indicates unknowns (where black and gray would correspond to rectangles 88 in FIG. 3).

Although FIGS. 3 and 4 show a single stretch of sequence, uninterrupted from left to right, longer sequences are usefully represented by vertical stacking of such individual Mondrians, as shown in FIGS. 9 and 10.

## Single Exon Probes Useful For Measuring Gene Expression 25

The methods and apparatus of the present invention rapidly produce functional information from genomic sequence. Where the function to be identified is 30 protein coding, the methods and apparatus of the present invention rapidly identify and confirm the expression of portions of genomic sequence that function to encode protein. As a direct result, the methods and apparatus of the present invention rapidly yield large numbers of

single-exon nucleic acid probes, the majority from previously unknown genes, each of which is useful for measuring and/or surveying expression of a specific gene in one or more tissues or cell types.

It is, therefore, another aspect of the present invention to provide genome-derived single exon nucleic acid probes useful for gene expression analysis, and particularly for gene expression analysis by microarray.

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Using the methods and genome-derived single-exon microarrays of the present invention, we have for example readily identified a large number of unique ORFs from human genomic sequence. Using single exon probes that encompass these ORFs, we have demonstrated, through microarray hybridization analysis, the expression of 5,081 of these 15 ORFs in heart.

As would immediately be appreciated by one of skill in the art, each single exon probe having demonstrable expression in heart is currently available for use in measuring the level of its ORF's expression in heart. The utility is specific to the probe; at sufficiently high hybridization stringency, which stringencies are well known in the art - see Ausubel et al. and Maniatis et al. - each probe reports the level of expression of message specifically containing that ORF.

It should be appreciated, however, that the probes of the present invention, for which expression in the heart has been demonstrated are useful for both measurement in the heart and for survey of expression in other tissues.

Significant among such advantages is the presence of probes for novel genes.

As mentioned above and further detailed in Examples 1 and 2, the methods described enable ORFs which are not present in existing expression databases to be

identified. And the fewer the number of tissues in which the ORF can be shown to be expressed, the more likely the ORF will prove to be part of a novel gene: as further discussed in Example 2, ORFs whose expression was

measurable in only a single of the tested tissues were represented in existing expression databases at a rate of only 11%, whereas 36% of ORFs whose expression was measurable in 9 tissues were present in existing expression databases, and fully 45% of those ORFs expressed in all ten tested tissues were present in existing expressed sequence databases.

Either as tools for measuring gene expression or tools for surveying gene expression, the genome-derived single exon probes of the present invention have significant advantages over the cDNA or EST-based probes that are currently available for achieving these utilities.

The genome-derived single exon probes of the present invention are useful in constructing genome-derived single exon microarrays; the genome-derived single exon microarrays, in turn, are useful devices for measuring and for surveying gene expression in the human.

Gene expression analysis using microarrays — conventionally using microarrays having probes derived from expressed message — is well-established as useful in the biological research arts (see Lockhart et al. Nature 405, 827-836).

expression profiles in cells in response to drug treatment (see, for example, Kaminski et al., "Global Analysis of Gene Expression in Pulmonary Fibrosis Reveals Distinct Programs Regulating Lung Inflammation and Fibrosis," Proc. Natl. Acad. Sci. USA 97(4):1778-83 (2000); Bartosiewicz et al., "Development of a Toxicological Gene Array and Quantitative Assessment of This Technology," Arch. Biochem.

Biophys. 376(1):66-73 (2000)), viral infection (see for
example, Geiss et al., "Large-scale Monitoring of Host Cell
Gene Expression During HIV-1 Infection Using cDNA
Microarrays," Virology 266(1):8-16 (2000)) and during cell
processes such as differentiation, senescence and apoptosis
(see, for example, Shelton et al., "Microarray Analysis of
Replicative Senescence," Curr. Biol. 9(17):939-45 (1999);
Voehringer et al., "Gene Microarray Identification of Redox
and Mitochondrial Elements That Control Resistance or
Sensitivity to Apoptosis," Proc. Natl. Acad. Sci. USA
97(6):2680-5 (2000)).

Microarrays have also been used to determine abnormal gene expression in diseased tissues (see, for example, Alon et al., "Broad Patterns of Gene Expression 15 Revealed by Clustering Analysis of Tumor and Normal Colon Tissues Probed by Oligonucleotide Arrays, " Proc. Natl. Acad. Sci. USA 96(12):6745-50 (1999); Perou et al., "Distinctive Gene Expression Patterns in Human Mammary Epithelial Cells and Breast Cancers, Proc. Natl. Acad. Sci. 20 USA 96(16):9212-7 (1999); Wang et al., "Identification of Genes Differentially Over-expressed in Lung Squamous Cell Carcinoma Using Combination of cDNA Subtraction and Microarray Analysis, "Oncogene 19(12):1519-28 (2000); Whitney et al., "Analysis of Gene Expression in Multiple 25 Sclerosis Lesions Using cDNA Microarrays, " Ann. Neurol. 46(3):425-8 (1999)), in drug discovery screens (see, for example, Scherf et al., "A Gene Expression Database for the Molecular Pharmacology of Cancer, " Nat. Genet. 24(3):236-44 (2000)) and in diagnosis to determine appropriate treatment 30 strategies (see, for example, Sgroi et al., "In vivo Gene Expression Profile Analysis of Human Breast Cancer Progression, " Cancer Res. 59(22):5656-61 (1999)).

In microarray-based gene expression screens of pharmacological drug candidates upon cells, each probe

provides specific useful data. In particular, it should be appreciated that even those probes that show no change in expression are as informative as those that do change, serving, in essence, as negative controls.

For example, where gene expression analysis is used to assess toxicity of chemical agents on cells, the failure of the agent to change a gene's expression level is evidence that the drug likely does not affect the pathway of which the gene's expressed protein is a part.

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Analogously, where gene expression analysis is used to assess side effects of pharmacological agents — whether in lead compound discovery or in subsequent screening of lead compound derivatives — the inability of the agent to alter a gene's expression level is evidence that the drug does not affect the pathway of which the gene's expressed protein is a part.

WO 99/58720 provides methods for quantifying the relatedness of a first and second gene expression profile and for ordering the relatedness of a plurality of gene expression profiles. The methods so described permit useful information to be extracted from a greater percentage of the individual gene expression measurements from a microarray than methods previously used in the art.

Other uses of microarrays are described in

25 Gerhold et al., Trends Biochem. Sci. 24(5):168-173 (1999)

and Zweiger, Trends Biotechnol. 17(11):429-436 (1999);

Schena et al.

The invention particularly provides genomederived single-exon probes known to be expressed in heart.

The individual single exon probes can be provided in the form of substantially isolated and purified nucleic acid, typically, but not necessarily, in a quantity sufficient to perform a hybridization reaction.

Such nucleic acid can be in any form directly

hybridizable to the message that contains the probe's ORF, such as double stranded DNA, single-stranded DNA complementary to the message, single-stranded RNA complementary to the message, or chimeric DNA/RNA molecules so hybridizable. The nucleic acid can alternatively or additionally include either nonnative nucleotides, alternative internucleotide linkages, or both, so long as complementary binding can be obtained. For example, probes can include phosphorothioates, methylphosphonates, morpholino analogs, and peptide nucleic acids (PNA), as are described, for example, in U.S. Patent Nos. 5,142,047; 5,235,033; 5,166,315; 5,217,866; 5,184,444; 5,861,250.

Usefully, however, such probes are provided in a form and quantity suitable for amplification, where the amplified product is thereafter to be used in the hybridization reactions that probe gene expression.

Typically, such probes are provided in a form and quantity suitable for amplification by PCR or by other well known amplification technique. One such technique additional to PCR is rolling circle amplification, as is described, inter alia, in U.S. Patent Nos. 5,854,033 and 5,714,320 and international patent publications WO 97/19193 and WO 00/15779. As is well understood, where the probes are to be provided in a form suitable for amplification, the range of nucleic acid analogues and/or internucleotide linkages will be constrained by the requirements and nature of the amplification enzyme.

Where the probe is to be provided in form suitable for amplification, the quantity need not be sufficient for direct hybridization for gene expression analysis, and need be sufficient only to function as an amplification template, typically at least about 1, 10 or 100 pg or more.

Each discrete amplifiable probe can also be

packaged with amplification primers, either in a single composition that comprises probe template and primers, or in a kit that comprises such primers separately packaged therefrom. As earlier mentioned, the ORF-specific 5' primers used for genomic amplification can have a first common sequence added thereto, and the ORF-specific 3' primers used for genomic amplification can have a second, different, common sequence added thereto, thus permitting, in this embodiment, the use of a single set of 5' and 3' primers to amplify any one of the probes. The probe composition and/or kit can also include buffers, enzyme, etc., required to effect amplification.

As mentioned earlier, when intended for use on a genome-derived single exon microarray of the present invention, the genome-derived single exon probes of the present invention will typically average at least about 100, 200, 300, 400 or 500 bp in length, including (and typically, but not necessarily centered about) the ORF. Furthermore, when intended for use on a genome-derived single exon microarray of the present invention, the genome-derived single exon probes of the present invention will typically not contain a detectable label.

When intended for use in solution phase
hybridization, however — that is, for use in a

25 hybridization reaction in which the probe is not first
bound to a support substrate (although the target may
indeed be so bound) — length constraints that are imposed
in microarray-based hybridization approaches will be
relaxed, and such probes will typically be labeled.

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In such case, the only functional constraint that dictates the minimum size of such probe is that each such probe must be capable of specifically identifying in a hybridization reaction the exon from which it is drawn. In theory, a probe of as little as 17 nucleotides is capable

of uniquely identifying its cognate sequence in the human genome. For hybridization to expressed message — a subset of target sequence that is much reduced in complexity as compared to genomic sequence — even fewer nucleotides are required for specificity.

Therefore, the probes of the present invention can include as few as 20, 25 or 50 bp or ORF, or more. In particular embodiments, the ORF sequences are given in SEQ ID NOS. 5,203 - 10,283, respectively, for probe SEQ ID NOS. 1 - 5,202. The minimum amount of ORF required to be included in the probe of the present invention in order to provide specific signal in either solution phase or microarray-based hybridizations can readily be determined for each of ORF SEQ ID NOS. 5,203 - 10,283 individually by routine experimentation using standard high stringency conditions.

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Such high stringency conditions are described, inter alia, in Ausubel et al. and Maniatis et al. microarray-based hybridization, standard high stringency conditions can usefully be 50% formamide, 5X SSC, 0.2  $\mu g/\mu l$ poly(dA), 0.2  $\mu$ g/ $\mu$ l human cot1 DNA, and 0.5 % SDS, in a humid oven at 42°C overnight, followed by successive washes of the microarray in 1% SSC, 0.2% SDS at 55°C for 5 minutes, and then 0.1% SSC, 0.2% SDS, at 55°C for 20 25 minutes. For solution phase hybridization, standard high stringency conditions can usefully be aqueous hybridization at 65°C in 6X SSC. Lower stringency conditions, suitable for cross-hybridization to mRNA encoding structurally- and functionally-related proteins, can usefully be the same as 30 the high stringency conditions but with reduction in .temperature for hybridization and washing to room temperature (approximately 25°C).

When intended for use in solution phase hybridization, the maximum size of the single exon probes

of the present invention is dictated by the proximity of other expressed exons in genomic DNA: although each single exon probe can include intergenic and/or intronic material contiguous to the ORF in the human genome, each probe of the present invention will include portions of only one expressed exon.

Thus, each single exon probe will include no more than about 25 kb of contiguous genomic sequence, more typically no more than about 20 kb of contiguous genomic 10 sequence, more usually no more than about 15 kb, even more usually no more than about 10 kb. Usually, probes that are maximally about 5 kb will be used, more typically no more than about 3 kb.

It will be appreciated that the Sequence Listing 15 appended hereto presents, by convention, only that strand of the probe and ORF sequence that can be directly translated reading from 5' to 3' end. As would be well understood by one of skill in the art, single stranded probes must be complementary in sequence to the ORF as 20 present in an mRNA; it is well within the skill in the art to determine such complementary sequence. It will further be understood that double stranded probes can be used in both solution-phase hybridization and microarray-based hybridization if suitably denatured.

Thus, it is an aspect of the present invention to provide single-stranded nucleic acid probes that have sequence complementary to those described herein above and below, and double-stranded probes one strand of which has sequence complementary to the probes described herein.

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The probes can, but need not, contain intergenic and/or intronic material that flanks the ORF, on one or both sides, in the same linear relationship to the ORF that the intergenic and/or intronic material bears to the ORF in The probes do not, however, contain nucleic genomic DNA. 35 acid derived from more than one expressed ORF.

And when intended for use in solution hybridization, the probes of the present invention can usefully have detectable labels. Nucleic acid labels are well known in the art, and include, inter alia, radioactive labels, such as <sup>3</sup>H, <sup>32</sup>P, <sup>35</sup>S, <sup>125</sup>I, <sup>131</sup>I; fluorescent labels, such as Cy3, Cy5, Cy5.5, Cy7, SYBR°

Green and other labels described in Haugland,
Handbook of Fluorescent Probes and Research Chemicals, 7th
ed., Molecular Probes Inc., Eugene, OR (2000), or

10 fluorescence resonance energy transfer tandem conjugates
thereof; labels suitable for chemiluminescent and/or
enhanced chemiluminescent detection; labels suitable for
ESR and NMR detection; and labels that include one member
of a specific binding pair, such as biotin, digoxigenin, or
15 the like.

The probes, either in quantity sufficient for hybridization or sufficient for amplification, can be provided in individual vials or containers.

Alternatively, such probes can usefully be packaged as a plurality of such individual genome-derived single exon probes.

When provided as a collection of plural individual probes, the probes are typically made available in amplifiable form in a spatially-addressable ordered set, typically one per well of a microtiter dish. Although a 96 well microtiter plate can be used, greater efficiency is obtained using higher density arrays.

If, as earlier mentioned, the ORF-specific
5' primers used for genomic amplification had a first
30 common sequence added thereto, and the ORF-specific 3'
primers used for genomic amplification had a second,
different, common sequence added thereto, a single set of
5' and 3' primers can be used to amplify all of the probes
from the amplifiable ordered set.

Such collections of genome-derived single exon probes can usefully include a plurality of probes chosen for the common attribute of expression in the human heart.

In such defined subsets, typically at least 50, 60, 75, 80, 85, 90 or 95% or more of the probes will be chosen by their expression in the defined tissue or cell type.

The single exon probes of the present invention, as well as fragments of the single exon probes comprising selectively hybridizable portions of the probe ORF, can be used to obtain the full length cDNA that includes the ORF by (i) screening of cDNA libraries; (ii) rapid amplification of cDNA ends ("RACE"); or (iii) other conventional means, as are described, inter alia, in Ausubel et al. and Maniatis et al.

It is another aspect of the present invention to provide genome-derived single exon nucleic acid microarrays useful for gene expression analysis, where the term "microarray" has the meaning given in the definitional section of this description, supra.

The invention particularly provides genomederived single-exon nucleic acid microarrays comprising a plurality of probes known to be expressed in human heart. In preferred embodiments, the present invention provides human genome-derived single exon microarrays comprising a plurality of probes drawn from the group consisting of SEQ ID NOS.: 1 - 5,202.

When used for gene expression analysis, the genome-derived single exon microarrays provide greater physical informational density than do the genome-derived single exon microarrays that have lower percentages of probes known to be expressed commonly in the tested tissue. At a fixed probe density, for example, a given microarray surface area of the defined subset genome-derived single

exon microarray can yield a greater number of expression measurements. Alternatively, at a given probe density, the same number of expression measurements can be obtained from a smaller substrate surface area. Alternatively, at a fixed probe density and fixed surface area, probes can be provided redundantly, providing greater reliability in signal measurement for any given probe. Furthermore, with a higher percentage of probes known to be expressed in the assayed tissue, the dynamic range of the detection means can be adjusted to reveal finer levels discrimination among the levels of expression.

Although particularly described with respect to their utility as probes of gene expression, particularly as probes to be included on a genome-derived single exon

15 microarray, each of the nucleic acids having SEQ ID NOS.: 1

- 5,202 contains an open-reading frame, set forth respectively in SEQ ID NOS.: 5,203 - 10,283, that encodes a protein domain. Thus, each of SEQ ID NOS. 1 - 5,202 can be used, or that portion thereof in SEQ ID NOS. 5,203 - 10,283

20 used, to express a protein domain by standard in vitro recombinant techniques. See Ausubel et al. and Maniatis et al.

Additionally, kits are available commercially that readily permit such nucleic acids to be expressed as protein in bacterial cells, insect cells, or mammalian cells, as desired (e.g., HAT Protein Expression & Purification System, ClonTech Laboratories, Palo Alto, CA; Adeno-X Expression System, ClonTech Laboratories, Palo Alto, CA; Protein Fusion & Purification (pMAL No. System, New England Biolabs, Beverley, MA)

Furthermore, shorter peptides can be chemically synthesized using commercial peptide synthesizing equipment and well known techniques. Procedures are described, inter alia, in Chan et al. (eds.), Fmoc Solid Phase Peptide

Synthesis: A Practical Approach (Practical Approach Series, (Paper)), Oxford Univ. Press (March 2000) (ISBN: 0199637245); Jones, Amino Acid and Peptide Synthesis (Oxford Chemistry Primers, No 7), Oxford Univ. Press (August 1992) (ISBN: 0198556683); and Bodanszky, Principles of Peptide Synthesis (Springer Laboratory), Springer Verlag (December 1993) (ISBN: 0387564314).

It is, therefore, another aspect of the invention to provide peptides comprising an amino acid sequence translated from SEQ ID NOS.: 5,203 - 10,283. Such amino acid sequences are set out in SEQ ID NOS: 10,284 - 15,322. Any such recombinantly-expressed or synthesized peptide of at least 8, and preferably at least about 15, amino acids, can be conjugated to a carrier protein and used to generate antibody that recognizes the peptide. Thus, it is a further aspect of the invention to provide peptides that have at least 8, preferably at least 15, consecutive amino acids.

The following examples are offered by way of illustration and not by way of limitation.

## EXAMPLE 1

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Preparation of Single Exon Microarrays from ORFs Predicted 25 in Human Genomic Sequence

# Bioinformatics Results

All human BAC sequences in fewer than 10 pieces that had been accessioned in a five month period immediately preceding this study were downloaded from GenBank. This corresponds to ~2200 clones, totaling ~350 MB of sequence, or approximately 10% of the human genome.

After masking repetitive elements using the program CROSS\_MATCH, the sequence was analyzed for open reading frames using three separate gene finding programs.

The three programs predict genes using independent algorithmic methods developed on independent training sets: GRAIL uses a neural network, GENEFINDER uses a hidden Markoff model, and DICTION, a program proprietary to 5 Genetics Institute, operates according to a different The results of all three programs were used to heuristic. create a prediction matrix across the segment of genomic DNA.

The three gene finding programs yielded a range 10 of results. GRAIL identified the greatest percentage of genomic sequence as putative coding region, 2% of the data analyzed. GENEFINDER was second, calling 1%, and DICTION yielded the least putative coding region, with 0.8% of genomic sequence called as coding region.

The consensus data were as follows. GRAIL and GENEFINDER agreed on 0.7% of genomic sequence, GRAIL and DICTION agreed on 0.5% of genomic sequence, and the three programs together agreed on 0.25% of the data analyzed. That is, 0.25% of the genomic sequence was identified by 20 all three of the programs as containing putative coding region.

ORFs predicted by any two of the three programs ("consensus ORFs") were assorted into "gene bins" using two criteria: (1) any 7 consecutive exons within a 25 kb window were placed together in a bin as likely contributing to a single gene, and (2) all ORFs within a 25 kb window were placed together in a bin as likely contributing to a single gene if fewer than 7 exons were found within the 25 kb window.

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#### PCR

The largest ORF from each gene bin that did not span repetitive sequence was then chosen for amplification, as were all consensus ORFs longer than 500 bp. This method approximated one exon per gene; however, a number of genes

were found to be represented by multiple elements.

Previously, we had determined that DNA fragments fewer than 250 bp in length do not bind well to the aminomodified glass surface of the slides used as support substrate for construction of microarrays; therefore, amplicons were designed in the present experiments to approximate 500 bp in length.

Accordingly, after selecting the largest ORF per gene bin, a 500 bp fragment of sequence centered on the ORF was passed to the primer picking software, PRIMER3

(available online for use at http://www-genome.wi.mit.edu/cgi-bin/primer/). A first additional sequence was commonly added to each ORF-unique 5' primer, and a second, different, additional sequence was commonly added to each ORF-unique 3' primer, to permit subsequent reamplification of the amplicon using a single set of "universal" 5' and 3' primers, thus immortalizing the amplicon. The addition of universal priming sequences also facilitates sequence verification, and can be used to add a cloning site should some ORFs be found to warrant further study.

The ORFs were then PCR amplified from genomic DNA, verified on agarose gels, and sequenced using the universal primers to validate the identity of the amplicon to be spotted in the microarray.

Primers were supplied by Operon Technologies

(Alameda, CA). PCR amplification was performed by standard techniques using human genomic DNA (Clontech, Palo Alto, CA) as template. Each PCR product was verified by SYBR® green (Molecular Probes, Inc., Eugene, OR) staining of agarose gels, with subsequent imaging by Fluorimager (Molecular Dynamics, Inc., Sunnyvale, CA). PCR amplification was classified as successful if a single band appeared.

directly from genomic DNA using PCR was approximately 75%. FIG. 5 graphs the distribution of predicted ORF (exon) length and distribution of amplified PCR products, with ORF length shown in red and PCR product length shown in blue (which may appear black in the figure). Although the range of ORF sizes is readily seen to extend to beyond 900 bp, the mean predicted exon size was only 229 bp, with a median size of 150 bp (n=9498). With an average amplicon size of 475 ± 25 bp, approximately 50% of the average PCR amplification product contained predicted coding region, with the remaining 50% of the amplicon containing either intron, intergenic sequence, or both.

Using a strategy predicated on amplifying about 500 bp, it was found that long exons had a higher PCR failure rate. To address this, the bioinformatics process was adjusted to amplify 1000, 1500 or 2000 bp fragments from exons larger than 500 bp. This improved the rate of successful amplification of exons exceeding 500 bp, constituting about 9.2% of the exons predicted by the gene finding algorithms.

Approximately 75% of the probes disposed on the array (90% of those that successfully PCR amplified) were sequence-verified by sequencing in both the forward and reverse direction using MegaBACE sequencer (Molecular Dynamics, Inc., Sunnyvale, CA), universal primers, and standard protocols.

Some genomic clones (BACs) yielded very poor PCR and sequencing results. The reasons for this are unclear, but may be related to the quality of early draft sequence or the inclusion of vector and host contamination in some submitted sequence data.

Although the intronic and intergenic material flanking coding regions could theoretically interfere with hybridization during microarray experiments, subsequent empirical results demonstrated that differential expression

ratios were not significantly affected by the presence of noncoding sequence. The variation in exon size was similarly found not to affect differential expression ratios significantly; however, variation in exon size was observed to affect the absolute signal intensity (data not shown).

The 350 MB of genomic DNA was, by the above-described process, reduced to 9750 discrete probes, which were spotted in duplicate onto glass slides using commercially available instrumentation (MicroArray GenII Spotter and/or MicroArray GenIII Spotter, Molecular Dynamics, Inc., Sunnyvale, CA). Each slide additionally included either 16 or 32 E. coli genes, the average hybridization signal of which was used as a measure of background biological noise.

Each of the probe sequences was BLASTed against the human EST data set, the NR data set, and SwissProt GenBank (May 7, 1999 release 2.0.9).

One third of the probe sequences (as amplified)

20 produced an exact match (BLAST Expect ("E") values less
than 1 e<sup>-100</sup>) to either an EST (20% of sequences) or a known
mRNA (13% of sequences). A further 22% of the probe
sequences showed some homology to a known EST or mRNA
(BLAST E values from 1 e<sup>-5</sup> to 1 e<sup>-99</sup>). The remaining 45% of
25 the probe sequences showed no significant sequence homology
to any expressed, or potentially expressed, sequences
present in public databases.

All of the probe sequences (as amplified) were then analyzed for protein similarities with the SwissProt database using BLASTX, Gish et al., Nature Genet. 3:266 (1993). The predicted functional breakdowns of the 2/3 of probes identical or homologous to known sequences are presented in Table 1.

Table 1

Function	of Predict	ted ORFs As	Deduced From Comparative
Sequence	Analysis		
Total	V6 chip	V7 chip	Function Predicted from
			Comparative Sequence
			Analysis
211	96	115	Receptor
120	43	77	Zinc Finger
30	11	19	Homeobox
25	9	16	Transcription Factor
17	11	7	Transcription
118	57	61	Structural
95	39	56	Kinase
36	18	18	Phosphatase
83	31	52	Ribosomal
45	19	26	Transport
21	17	14	Growth Factor
17	12	5	Cytochrome
50	33	17	Channel
1		·	

As can be seen, the two most common types of genes were transcription factors and receptors, making up 5 2.2% and 1.8% of the arrayed elements, respectively.

## EXAMPLE 2

Gene Expression Measurements From Genome-Derived Single
10 Exon Microarrays

The two genome-derived single exon microarrays prepared according to Example 1 were hybridized in a series of simultaneous two-color fluorescence experiments to (1)

Cy3-labeled cDNA synthesized from message drawn individually from each of brain, heart, liver, fetal liver, placenta, lung, bone marrow, HeLa, BT 474, or HBL 100 cells, and (2) Cy5-labeled cDNA prepared from message pooled from all ten tissues and cell types, as a control in each of the measurements. Hybridization and scanning were carried out using standard protocols and Molecular Dynamics equipment.

Briefly, mRNA samples were bought from commercial sources (Clontech, Palo Alto, CA and Amersham Pharmacia 10 Biotech (APB)). Cy3-dCTP and Cy5-dCTP (both from APB) were incorporated during separate reverse transcriptions of 1  $\mu g$ of polyA $^{+}$  mRNA performed using 1  $\mu$ g oligo(dT)12-18 primer and 2  $\mu g$  random 9mer primers as follows. After heating to 70°C, the RNA:primer mixture was snap cooled on ice. snap cooling on ice, added to the RNA to the stated final concentration was: 1X Superscript II buffer, 0.01 M DTT, 100 $\mu$ M dATP, 100  $\mu$ M dGTP, 100  $\mu$ M dTTP, 50  $\mu$ M dCTP, 50  $\mu$ M Cy3-dCTP or Cy5-dCTP 50  $\mu M$ , and 200 U Superscript II The reaction was incubated for 2 hours at 42°C. enzyme. 20 After 2 hours, the first strand cDNA was isolated by adding 1 U Ribonuclease H, and incubating for 30 minutes at 37°C. The reaction was then purified using a Qiagen PCR cleanup column, increasing the number of ethanol washes to 5. Probe was eluted using 10 mM Tris pH 8.5.

Using a spectrophotometer, probes were measured for dye incorporation. Volumes of both Cy3 and Cy5 cDNA corresponding to 50 pmoles of each dye were then dried in a Speedvac, resuspended in 30  $\mu$ l hybridization solution containing 50% formamide, 5X SSC, 0.2  $\mu$ g/ $\mu$ l poly(dA), 0.2  $\mu$ g/ $\mu$ l human cotl DNA, and 0.5 % SDS.

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Hybridizations were carried out under a coverslip, with the array placed in a humid oven at 42°C overnight. Before scanning, slides were washed in 1X SSC, 0.2% SDS at 55°C for 5 minutes, followed by 0.1X SSC, 0.2%

SDS, at 55°C for 20 minutes. Slides were briefly dipped in water and dried thoroughly under a gentle stream of nitrogen.

Slides were scanned using a Molecular Dynamics

Gen3 scanner, as described. Schena (ed.), Microarray

Biochip: Tools and Technology, Eaton Publishing

Company/BioTechniques Books Division (2000) (ISBN:

1881299376).

Although the use of pooled cDNA as a reference

10 permitted the survey of a large number of tissues, it
attenuates the measurement of relative gene expression,
since every highly expressed gene in the tissue/cell typespecific fluorescence channel will be present to a level of
at least 10% in the control channel. Because of this fact,

15 both signal and expression ratios (the latter hereinafter,
"expression" or "relative expression") for each probe were
normalized using the average ratio or average signal,
respectively, as measured across the whole slide.

Data were accepted for further analysis only when signal was at least three times greater than biological noise, the latter defined by the average signal produced by the E. coli control genes.

The relative expression signal for these probes was then plotted as function of tissue or cell type, and is presented in FIG. 6.

FIG. 6 shows the distribution of expression across a panel of ten tissues. The graph shows the number of sequence-verified products that were either not expressed ("0"), expressed in one or more but not all tested tissues ("1" - "9"), and expressed in all tissues tested ("10").

Of 9999 arrayed elements on the two microarrays (including positive and negative controls and "failed" products), 2353 (51%) were expressed in at least one tissue

or cell type. Of the gene elements showing significant signal — where expression was scored as "significant" if the normalized Cy3 signal was greater than 1, representing signal 5-fold over biological noise (0.2) — 39% (991) were expressed in all 10 tissues. The next most common class (15%) consisted of gene elements expressed in only a single tissue.

The genes expressed in a single tissue were further analyzed, and the results of the analyses are compiled in FIG. 7.

FIG. 7A is a matrix presenting the expression of all verified sequences that showed expression greater than 3 in at least one tissue. Each clone is represented by a column in the matrix. Each of the 10 tissues assayed is 15 represented by a separate row in the matrix, and relative expression of a clone in that tissue is indicated at the respective node by intensity of green shading, with the intensity legend shown in panel B. The top row of the matrix ("EST Hit") contains "bioinformatic" rather than 20 "physical" expression data — that is, presents the results returned by query of EST, NR and SwissProt databases using the probe sequence. The legend for "bioinformatic expression" (i.e., degree of homology returned) is presented in panel C. Briefly, white is known, black is 25 novel, with gray depicting nonidentical with significant homology (white: E values < 1e-100; gray: E values from 1e-05 to 1e-99; black: E values > 1e-05).

As FIG. 7 readily shows, heart and brain were demonstrated to have the greatest numbers of genes that were shown to be uniquely expressed in the respective tissue. In brain, 200 uniquely expressed genes were identified; in heart, 150. The remaining tissues gave the following figures for uniquely expressed genes: liver, 100; lung, 70; fetal liver, 150; bone marrow, 75; placenta, 100;

HeLa, 50; HBL, 100; and BT474, 50.

It was further observed that there were many more "novel" genes among those that were up-regulated in only one tissue, as compared with those that were down-regulated 5 in only one tissue. In fact, it was found that ORFs whose expression was measurable in only a single of the tested tissues were represented in sequencing databases at a rate of only 11%, whereas 36% of the ORFs whose expression was measurable in 9 of the tissues were present in public As for those ORFs expressed in all ten tissues, 10 databases. fully 45% were present in existing expressed sequence These results are not unexpected, since genes databases. expressed in a greater number of tissues have a higher likelihood of being, and thus of having been, discovered by 15 EST approaches.

### Comparison of Signal from Known and Unknown Genes

The normalized signal of the genes found to have high homology to genes present in the GenBank human EST database were compared to the normalized signal of those genes not found in the GenBank human EST database. The data are shown in FIG. 8.

for all sequence-verified products with a BLAST Expect

("E") value of greater than 1e-30 (designated "unknown")

upon query of existing EST, NR and SwissProt databases, and shows in blue the normalized Cy3 signal intensity for all sequence-verified products with a BLAST Expect value of less than 1e-30 ("known"). Note that biological background noise has an averaged normalized Cy3 signal intensity of 0.2.

As expected, the most highly expressed of the ORFs were "known" genes. This is not surprising, since very high signal intensity correlates with very commonly-expressed genes, which have a higher likelihood of being

found by EST sequence.

However, a significant point is that a large number of even the high expressers were "unknown". Since the genomic approach used to identify genes and to confirm their expression does not bias exons toward either the 3' or 5' end of a gene, many of these high expression genes will not have been detected in an end-sequenced cDNA library.

The significant point is that presence of the gene in an EST database is not a prerequisite for incorporation into a genome-derived microarray, and further, that arraying such "unknown" exons can help to assign function to as-yet undiscovered genes.

## 15 Verification of Gene Expression

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To ascertain the validity of the approach described above to identify genes from raw genomic sequence, expression of two of the probes was assayed using reverse transcriptase polymerase chain reaction (RT PCR) and northern blot analysis.

Two microarray probes were selected on the basis of exon size, prior sequencing success, and tissue-specific gene expression patterns as measured by the microarray experiments. The primers originally used to amplify the two respective ORFs from genomic DNA were used in RT PCR against a panel of tissue-specific cDNAs (Rapid-Scan gene expression panel 24 human cDNAs) (OriGene Technologies, Inc., Rockville, MD).

Sequence AL079300\_1 was shown by microarray

hybridization to be present in cardiac tissue, and sequence AL031734\_1 was shown by microarray experiment to be present in placental tissue (data not shown). RT-PCR on these two sequences confirmed the tissue-specific gene expression as measured by microarrays, as ascertained by the presence of

a correctly sized PCR product from the respective tissue type cDNAs.

Clearly, all microarray results cannot, and indeed should not, be confirmed by independent assay 5 methods, or the high throughput, highly parallel advantages of microarray hybridization assays will be lost. However, in addition to the two RT-PCR results presented above, the observation that 1/3 of the arrayed genes exist in expression databases provides powerful confirmation of the 10 power of our methodology - which combines bioinformatic prediction with expression confirmation using genomederived single exon microarrays - to identify novel genes from raw genomic data.

To verify that the approach further provides 15 correct characterization of the expression patterns of the identified genes, a detailed analysis was performed of the microarrayed sequences that showed high signal in brain.

For this latter analysis, sequences that showed high (normalized) signal in brain, but which showed very low (normalized) signal (less than 0.5, determined to be biological noise) in all other tissues, were further studied. There were 82 sequences that fit these criteria, approximately 2% of the arrayed elements. The 10 sequences showing the highest signal in brain in microarray 25 hybridizations are detailed in Table 2, along with assigned function, if known or reasonably predicted.

Table 2

20

F	unction	of the Mos	st Highly	
Expressed G	enes Exp	ressed Onl	y in Brair	ı
-				
Microarray	Normal	Expressi	Homology	Gene Function
Sequence	ized	on Ratio	to EST	as described by
Name	Signal		present	GenBank

			in	
			GenBank	
AP000217-1	5.2	+7.7	High	S-100 protein,
				b-chain, Ca <sup>2+</sup>
				binding protein
				expressed in
				central nervous
				system
AP000047-1	2.3		High	Unknown
				Function
AC006548-9	1.7		High	Similar to
neocosis s				mouse membrane
				glyco-protein
				M6, expressed
				in central
				nervous system
AC007245-5	1.5		High	Similar to
AC007245-5				amphiphysin, a
				synaptic
				vesicle-
				associated
				protein. Ref 21
L44140-4	1.2	+2.0	High	Endothelial
1,44140-4	1.2	1.2.0		actin-binding
				protein found
				in nonmuscle
				filamin
AC004689-	9 1.2	+3.5	High	Protein
ACUU4669-				Phosphatase
				PP2A, neuronal/
				downregulates
				activated
				protein kinases
222555	-1 1.2	+3.0	High	Unknown
AL031657	-1   1.2	173.0	1 3	1

				function/ Contains the anhyrin motif, a common protein sequence motif
AC009266-2	1.1	+3.7	Low	Low homology to the Synaptotagmin I protein in rat/present at low levels throughout rat brain
AP000086-1	1.0	+2.7	Low	Unknown, very poor homology to collagen
AC004689-3	1.0		High	Protein Phosphatase PP2A, neuronal/ downregulates activated protein kinases

Of the ten sequences studied by these latter confirmatory approaches, eight were previously known. Of these eight, six had previously been reported to be

5 important in the central nervous system or brain. The exon giving the highest signal (AP00217-1) was found to be the gene encoding an S100B Ca<sup>2+</sup> binding protein, reported in the literature to be highly and uniquely expressed in the central nervous system. Heizmann, Neurochem. Res. 9:1097

10 (1997).

A number of the brain-specific probe sequences

(including AC006548-9, AC009266-2) did not have homology to any known human cDNAs in GenBank but did show homology to rat and mouse cDNAs. Sequences AC004689-9 and AC004689-3 were both found to be phosphatases present in neurons

(Millward et al., Trends Biochem. Sci. 24(5):186-191
(1999)). Two microarray sequences, AP000047-1 and AP000086-1 have unknown function, with AP000086-1 being absent from GenBank. Functionality can now be narrowed down to a role in the central nervous system for both of these genes, showing the power of designing microarrays in this fashion.

Next, the function of the chip sequences with the highest (normalized) signal intensity in brain, regardless of expression in other tissues, was assessed. In this latter analysis, we found expression of many more common genes, since the sequences were not limited to those expressed only in brain. For example, looking at the 20 highest signal intensity spots in brain, 4 were similar to tubulin (AC00807905; AF146191-2; AC007664-4; AF14191-2), 2 were similar to actin (AL035701-2; AL034402-1), and 6 were found to be homologous to glyceraldehyde-3-phosphate dehydrogenase (GAPDH) (AL035604-1; Z86090-1; AC006064-L, AC006064-K; AC035604-3; AC006064-L). These genes are often used as controls or housekeeping genes in microarray experiments of all types.

Other interesting genes highly expressed in brain were a ferritin heavy chain protein, which is reported in the literature to be found in brain and liver (Joshi et al., J. Neurol. Sci. 134(Suppl):52-56 (1995)), a result duplicated with the array. Other highly expressed chip sequences included a translation elongation factor 1 (AC007564-4), a DEAD-box homolog (AL023804-4), and a Y-chromosome RNA-binding motif (Chai et al., Genomics 49(2):283-89 (1998)) (AC007320-3). A low homology analog

(AP00123-1/2) to a gene, DSCR1, thought to be involved in trisomy 21 (Down's syndrome), showed high expression in both brain and heart, in agreement with the literature (Fuentes et al., Mol. Genet. 4(10):1935-44 (1995)).

As a further validation of the approach, we selected the BAC AC006064 to be included on the array. This BAC was known to contain the GAPDH gene, and thus could be used as a control for the ORF selection process. The gene finding and exon selection algorithms resulted in 10 choosing 25 exons from BAC AC006064 for spotting onto the array, of which four were drawn from the GAPDH gene. 3 shows the comparison of the average expression ratio for the 4 exons from BAC006064 compared with the average expression ratio for 5 different dilutions of a commercially available GAPDH cDNA (Clontech).

Table 3

15

Comparis	on of Expression Ra	atio, for each
tissue, of GAPDH		
	AC006064 (n = 4)	Control (n = 5)
Bone Marrow	-1.81 ± 0.11	-1.85 ± 0.08
Brain	-1.41 ± 0.11	-1.17 ± 0.05
BT474	1.85 ± 0.09	1.66 ± 0.12
Fetal Liver	-1.62 ± 0.07	-1.41 ± 0.05
HBL100	1.32 ± 0.05	2.64 ± 0.12
Heart	1.16 ± 0.09	1.56 ± 0.10
HeLa	1.11 ±0.06	1.30 ± 0.15
Liver	-1.62 ± 0.22	-2.07 ±
Lung	-4.95 ± 0.93	-3.75 ± 0.21
Placenta	-3.56 ± 0.25	$-3.52 \pm 0.43$

experimentally chosen exons and the control, again demonstrating the validity of the present exon mining approach. In addition, the data also show the variability of expression of GAPDH within tissues, calling into question its classification as a housekeeping gene and utility as a housekeeping control in microarray experiments.

#### EXAMPLE 3

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10 Representation of Sequence and Expression Data as a "Mondrian"

as above-described, a plethora of information was

15 accumulated, including full clone sequence, probe sequence
within the clone, results of each of the three gene finding
programs, EST information associated with the probe
sequences, and microarray signal and expression for
multiple tissues, challenging our ability to display the

20 information.

Accordingly, we devised a new tool for visual display of the sequence with its attendant annotation which, in deference to its visual similarity to the paintings of Piet Mondrian, is hereinafter termed a "Mondrian". FIGS. 3 and 4 present the key to the information presented on a Mondrian.

FIG. 9 presents a Mondrian of BAC AC008172 (bases 25,000 to 130,000 shown), containing the carbamyl phosphate synthetase gene (AF154830.1). Purple background within the region shown as field 81 in FIG. 3 indicates all 37 known exons for this gene.

As can be seen, GRAIL II successfully identified 27 of the known exons (73%), GENEFINDER successfully identified 37 of the known exons (100%), while DICTION identified 7 of the known exons (19%).

Seven of the predicted exons were selected for physical assay, of which 5 successfully amplified by PCR and were sequenced. These five exons were all found to be from the same gene, the carbamyl phosphate synthetase gene (AF154830.1).

The five exons were arrayed, and gene expression measured across 10 tissues. As is readily seen in the Mondrian, the five chip sequences on the array show identical expression patterns, elegantly demonstrating the reproducibility of the system.

FIG. 10 is a Mondrian of BAC AL049839. We selected 12 exons from this BAC, of which 10 successfully sequenced, which were found to form between 5 and 6 genes. Interestingly, 4 of the genes on this BAC are protease 15 inhibitors. Again, these data elegantly show that exons selected from the same gene show the same expression patterns, depicted below the red line. From this figure, it is clear that our ability to find known genes is very good. A novel gene is also found from 86.6 kb to 88.6 kb, 20 upon which all the exon finding programs agree. We are confident we have two exons from a single gene since they show the same expression patterns and the exons are proximal to each other. Backgrounds in the following colors indicate a known gene (top to bottom): 25 red = kallistatin protease inhibitor (P29622); purple = plasma serine protease inhibitor (P05154); turquoise =  $\alpha$ 1 anti-chymotrypsin (P01011); mauve = 40S ribosomal protein (P08865). Note that chip sequence 8 and 12 did not sequence verify.

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## EXAMPLE 4

Genome-Derived Single Exon Probes Useful For Measuring Human Gene Expression

The protocols set forth in Examples 1 and 2, supra, were applied to additional human genomic sequence as it became newly available in GenBank. 5,081 unique exons in the human genome that could be shown to be expressed at significant levels in heart tissue were identified.

These unique exons are within longer probe sequences. Each probe was completely sequenced on both strands prior to its use on a genome-derived single exon microarray; sequencing confirms the exact chemical structure of each probe. An added benefit of sequencing is that it placed us in possession of a set of single base-incremented fragments of the sequenced nucleic acid, starting from the sequencing primer 3' OH. (Since the single exon probes were first obtained by PCR amplification from genomic DNA, we were of course additionally in possession of an even larger set of single base incremented fragments of each of the 5,202 single exon probes, each fragment corresponding to an extension product from one of the two amplification primers.)

The structures of the 5,202 unique single exon probes are clearly presented in the Sequence Listing as SEQ ID Nos.: 1 - 5,202. The 16 nt 5' primer sequence and 16 nt 3' primer sequence present on the amplicon are not included in the sequence listing. The sequences of the exons present within each of these probes is presented in the Sequence Listing as SEQ ID Nos.: 5,203 - 10,283, respectively. It will be noted that some amplicons have more than one exon, some exons are contained in more than one amplicon.

As detailed in Example 2, expression was demonstrated by disposing the amplicons as single exon probes on nucleic acid microarrays and then performing two-color fluorescent hybridization analysis; significant

expression is based on a statistical confidence that the signal is significantly greater than negative biological control spots. The negative biological control is formed from spotted DNA sequences from a different species. Here, 32 sequences from E.Coli were spotted in duplicate to give a total of 64 spots.

For each hybridisation (each slide, each colour) the median value of the signal from all of the spots is determined. The normalised signal value is the arithmetic mean of the signal from duplicate spots divided by the population median.

Control spots are eliminated if there is more that a five-fold difference between each one of the duplicate spots raw signals.

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The median of the signal from the remaining control spots is calculated and all subsequent calculations are done with normalised signals.

Control spots having a signal of greater than median + 2.4 (the value 2.4 is roughly 12 times the observed standard deviation of control spot populations) are eliminated. Spots with such high signals are considered to be "outliers".

The mean and standard deviation of the modified control spot populations are calculated.

The mean + 3x the standard deviation (mean + (3\*SD)) is used as the signal threshold qualifier for that particular hybridisation. Thus, individual thresholds are determined for each channel and each hybridisation.

This means that, assuming that the data is distributed normally, there is a 99% confidence that any signal exceeding the threshold is significant.

The probes and their expression data are presented in Table 4, set forth respectively in Example 5.

Example 5 presents the subset of probes that is significantly expressed in the human heart and thus

presents the subset of probes that was recognized to be useful for measuring expression of their cognate genes in human heart tissue.

The sequence of each of the exon probes

identified by SEQ ID NOS.: 5,203 to 10,283 was individually used as a BLAST (or, for SWISSPROT, BLASTX) query to identify the most similar sequence in each of dbEST, SwissProt (BLASTX), and NR divisions of GenBank. Because the query sequences are themselves derived from genomic sequence in GenBank, only nongenomic hits from NR were scored.

The smallest in value of the BLAST (or BLASTX)

expect ("E") scores for each query sequence across the

three database divisions was used as a measure of the

"expression novelty" of the probe's ORF. Table 4 is sorted

in descending order based on this measure, reported as

"Most Similar (top) Hit BLAST E Value". 29 out of the 5081

exons were found to have no similar sequences.

As sorted, Table 4 thus lists its respective

20 probes (by "AMPLICON SEQ ID NO.:" and additionally by the

SEQ ID NO: of the exon contained within the probe: "EXON

SEQ ID NO.:") from least similar to sequences known to be

expressed (i.e., highest BLAST E value), at the beginning

of the table, to most similar to sequences known to be

25 expressed (i.e., lowest BLAST E value), at the bottom of

the table.

Table 4 further provides, for each listed probe, the accession number of the database sequence that yielded the "Most Similar (top) Hit BLAST E Value", along with the name of the database in which the database sequence is found ("Top Hit Database Source").

Table 4 further provides SEQ ID NOS. corresponding to the predicted amino acid sequences where they have been determined for the probe and exon nucleotide

sequences. These are set out as PEPTIDE SEQ ID NOS.:. The peptide sequences for a given exon are predicted as follows: Since each chip exon is a consensus sequence drawn from predictions from various exon finding programs (i.e. Grail, GeneFinder and GenScan), the multiple initial ORFs are first determined in a uniform way according to each prediction. In particular, the reading frame for predicting the first amino acid in the peptide sequence always starts with the first base of any codon and ends with the last base of non-termination codon. Next, for each strand of the exon, initial ORFs are merged into one or more final ORFs in an exhaustive process based on the following criteria:

1) the merging ORFs must be overlapping, and 2) the merging ORFs must be in the same frame.

of the data presented in Table 4, further includes, for each probe, the most similar hit, with accession number and BLAST E value, from the each of the three queried databases.

Table 4 further lists, for each probe, a portion of the descriptor for the top hit ("Top Hit Descriptor") as provided in the sequence database. For those ORFs that are similar in sequence, but nonidentical to known sequences (e.g., those with BLAST E values between about 1e-05 and 1e-100), the descriptor reveals the likely function of the protein encoded by the probe's ORF.

Using BLAST E value cutoffs of 1e-05 (i.e., 1 x 10<sup>-5</sup>) and 1e-100 (i.e., 1 x 10<sup>-100</sup>) as evidence of similarity to sequences known to be expressed is of course arbitrary: in Example 2, supra, a BLAST E value of 1e-30 was used as the boundary when only two classes were to be defined for analysis (unknown, >1e-30; known <1e-30) (see also FIG. 8). Furthermore, even when the "Most Similar (Top) Hit BLAST E Value" is low, e.g., less than about 1e-100 — which is

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probative evidence that the query sequence has previously been shown to be expressed — the top hit is highly unlikely exactly to match the probe sequence.

First, such expression entries typically will not have the intronic and/or intergenic sequence present within the single exon probes listed in the Table. Second, even the ORF itself is unlikely in such cases to be present identically in the databases, since most of the EST and mRNA clones in existing databases include multiple exons, without any indication of the location of exon boundaries.

As noted, the data presented in Table 4 represent a proper subset of the data present within the attached sequence listing. For each amplicon probe (SEQ ID NOs.: 1 - 5,202) and probe exon (SEQ ID NOs.: 5,203 - 10,283, respectively), the sequence listing further provides, through iterated annotation fields <220> and <223>:

- (a) the accession number of the BAC from which the sequence was derived ("MAP TO"), thus providing a link to the chromosomal map location and other information about the genomic milieu of the probe sequence;
- (b) the most similar sequence provided by BLAST query of the EST database, with accession number and BLAST E value for the "hit";
- (c) the most similar sequence provided by BLAST query of the GenBank NR database, with accession number and BLAST E value for the "hit"; and
  - (d) the most similar sequence provided by BLASTX query of the SWISSPROT database, with accession number and BLAST E value for the "hit".

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#### EXAMPLE 5

Genome-Derived Single Exon Probes Useful For Measuring Expression of Genes in Human Heart

Table 4 presents expression, homology, and functional information for the genome-derived single exon probes that are expressed significantly in human heart.

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Page 1 of 196

Table 4

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1 Mile subjuite of bioxili confirmation	Homo ganlens G-protein coupled receptor 14 (GPR14) gene, complete cds	nea seed-home mossic virus complete genome	nea seed home mosaic virus complete genome	Finale cletters sesquitement synthase mRNA, complete cds	Logo segiene hypothetical prolein PRO3077 (PRO3077), mRNA	DISTIDING BICH DROTEIN PRECURSOR (CLONE PFHRP-III)	DISTIDING BIOLD BECLISSOR (CLONE PFHRP-III)	3'  LIGHTONIE BICH BROTEIN BRECHRSOR (CLONE PEHRP-III)	zi22d08.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens conA doile inASE.*31999						10/27 1188886-1311234	Fugu rubripes gamma-aminobutyric acid receptor beta subunit gene, parual cas, concepty rubripes gamma-aminobutyric acid receptor beta subunit gene, parual cas, concepty enythrocyte membrane protein (P55), synaptic veside-associated integral membrane protein (VAMP-1), procollagen C-proteinase enhancer protein (PCOLCE) genes, complete c>	MUS musculus alpita-speciii i, ci yunco (opina-); maasa	The state of the second of the	Cyprinus carpio MRPb and MASP-related protein, complete cds	Chiamydia mundarum, secucii do di oo di uia conigrace personali lactin-associated serine	on the complete denome	tc24e03.x1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA ctone im/AGE:200304 3 similar to contains Alu repetitive element;contains element MER22 repetitive element;		Homo sapiens zinc iniger protein (a) (14, 44) (15) pene. complete cds	Homo sapiens zinc illiger protein 157 (HZF222) (ZNF157) mRNA	Homo sapiens purative psinnow pseudogene io neil noticen, occurs, occu	Cantharellus ap. partial 255 rRNA gene, isolate i libet	Homo sapiens chromosome 21 segiment nozitod to	M.mucedo gene encoding 4-Dinyarollieutyi-utsporate deiryarogonico	Methanococcus Jannaschii secuon 129 oi 130 oi uis compresse generale		PEROXISOME PROLIFERATOR ACTIVATED NECEF TOWNER TO THE PERONE	CMO-NN1005-140300-230-100 NN 1003 HUILD SAPERIS CENTS	CMC-NN1005-140300-260-100 NN1005 Homo espisine cDNA	Homo sapiens made itorious intro-7 intro-7	Chamydia mundarum, secucii 53 di 63 di un cumpico (MADA) mRNA	

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	15170		Π		14097	Γ	Τ	Т	$\exists$	13776		13721	13697		13541		Т	13229	13123	12160		12028	10749			14677	14634		14513	13570	13882		13570		13304	330	12282	13321
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Velicing in a contract of	Yenonie lasvis rhodonsin gene, complete cds	F taecalls obo5 dene	African swine fever virus, complete genome	Drosophila melanogaster cytopiasmic dynein heavy chain mRNA, complete cds	R unicomis complete mitochondrial genome	Homo sabiens hypothetical protein FLJ10749 (FLJ10749), mRNA	Homo saplens calpain 9 (nCL-4) (CAPN9) mRNA			to SW:P531 HUMAN Q12888 P53-BINDING PROTEIN 53BP1 :	Inditio saprais INFL T GBC S1 Homo saplens cDNA clone IMAGE:2359461 3' similar	similar to ORF(RELATED TO ACTIN BUNDLING PROTEIN DEMATIN)	KK4629F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone KK4629 5	Homo saniens hypothetical protein FLJ10749 (FLJ10749), mRNA	Homo series chromosome 21 segment HS21C013	-1	Homo sapiens alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide (ADH7) mRNA	Homo saplens alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide (ADD) illiniana		Homo saplens mRNA for KIAA1522 protein, partial cds	UI-HF-BR0p-ajk-f-02-0-UI.S1 NIH_MGC_52 Homo sapiens cDNA clone IMAGE:3074834 3	CAC-040045-11006-10-315 2150-11-11-11-11-11-11-11-11-11-11-11-11-11	Human mkNA for NIAAUZZ/ gette, palver ASS	G.gailos I-cautienin money, comprose con	1. pinnatulit dilotopiasti poc gono, per se	٠,	Arabicopsis dialialid DIVA culturioscino 1, come complete cds	Rattus rattus cardiac AE3 Beile, excits 1-25		Rathis norveolous Glycine receptor alpha 2 subunit (glycine receptor, neonatal) (Gira2),	Homo sanians I HX3 gana, intron 2	Mus muscullus subtilisin-like serine protease LPC (PC7) gene, exons 1 to 9, partial cds	G gallus T-cadherin mRNA, complete cds	Homo sapiens LHX3 gene, intron 2				Homo sapiens mRNA for KIAA0874 protein, partial cds

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8.805-01	9.90	0.000	1000	1000	1,000	1000	1.00E+0	1.000+00	1.00€+00		1 005+00	1.000		1.00=+0	1.00=+0	1.000	2000	100=+00	1.00=+00		1.00€+00	1.00€+00		1.00E+00 P24008	1.000	1 000 100		1,00E+00 P48355	1.00E+00	1.00E+00 P02704	1.00E+00		1 005+00	1 005+00	1.00€+00	1.00E+00	1.00E+00	1.000	1 1 005 100 1088425 1
			1 00E+00 A 1223978.1	0 010850 1	1 00E+00 AL163281.2	00E+00 U75741.1	009472	0 8922245	AF22339		0 U89198.1		180108 1	1.00E+00 AJZZ3010.1	1.005+00 023000.1			AF260827.1	1.00E+00 AA628453.1		014226	P24008		P24008		AF131205 1	_	P48355	P48355	P02704	1.00E+00 AB006531.1		1.00E+00 X80416.1	1.00E+00 AF125984.1	1.00E+00 AL163218.2	.00E+00 AJ251660.1	1.00E+00 AB021684.1	000120.	D88425 1
	N <sub>1</sub>	NT	S.	NT.	NT	NT	SWISSPROT		NT		NT		<u>Z</u>	2	NIT.	NT.	NT	NT	EST HUMAN		SWISSPRO	SWISSPROT		SWISSPROT		Z	<u> </u>	SWIDSPROI	SWISSPROT	SWISSPROT	NT		NT	NT	NT	N	NT.		Z H
	Drosophila melanogaster regulator of G-protein signalling LUCU III IIINIAN, Willipiete Wa	Drosophila melanogaster regulator of G-protein signalling LOCO III IIINAN, complete cite	Bacillus subtilis 42.7kB DNA fragment from yvsA to yvqA	Rattus norvegicus mRNA for N-acetyglucosaminytransierase iii, complete cos	Homo saplens chromosome 21 segment HS21C081	į	E1A-ASSOCIATED PROTEIN POO		cds, alternatively spliced	Homo sapiens calcium channel alpha 1E subunit (CACIVA IE) gelle, excita ( - c, and prima		Geococcyx velox cytochrome b (cytb) gene, mitochondrial gene encoding mitochondrial	protein, complete cds	Cancerox valox cytochrome b (cytb) gene, mitochondrial gene encoding mitochondral	Agaricus bisporus mRNA for tyrosinase	Xenopus laevis rhodopsin gene, complete cds	Rattus norvegicus neuromedin U precursor (NmU) gene, exons o and o	Ipomoea batatas cysteine protease mkina, complete was		at26g08.s1 Soares_total_fetus_Nb2HF8_9w Homo saplens cDNA clone invivor: 1032030 similar to WP:C42D8.3 CE04204 ;contains element MER22 MER22 repetitive element;	מוד כווובווכר ביים מיים וויים מיים מיים מיים מיים מיים	(SK   YPE 1)	HA-STEROID 4-DERTURO	(SR TYPE 1)	3-OXO-5-ALPHA-STEROID 4-DEHYDROGENASE 1 (STEROID 5-ALPHA-REDUCTASE 1)	rs3) genes, complete cds	apoptosis inhibitory protein-rs6 (Naip-rs6), and neuronal apoptosis inhibitory protein-rs3 (Naip-	(Serf1), survi	DNA GYDASE SUBUNIT B	PROCULT NOT OF THE CONTROL OF THE CO	complete cds	RNA for nonstructural	V.carteri Algal-CAM mRNA	Aedes aegypti much-like protein MUC i filmtes, willpress	Homo sapiens circumosorile A i seguinami i sono complete cole	Girardia ugilila ilinivo ivi lioliloccoment HS21C018	20 July 20 July 10 Jul	Marchantia polymorpha genes for 26S rRNA, 5S rRNA, 18S rRNA, 5.8S rRNA and 26S rRNA	Cavia cobaya mRNA for serine/threolne kinase, complete cds

Homo sapiens Ai-binding transcription lactor 1 (AIBF1), mKNA		IN SEQUES	0.70E-01	=	70021	/400	2303
Homo sapiens SOS1 (SOS1) gene, partial cds		AF106953.2	8.70E-01	0.5	10750	5623	457
PUTATIVE F420-DEPENDENT NADP REDUCTASE	/ISSPROT	026350	8.80E-01	3.3	14658	9562	4442
Drosophila melanogaster enhancer of polycomb (E(Pc)) mRNA, complete cds	N.T	AF079764.1	8.80E-01	1.5	14204	9120	3988
Chiamydia trachomatis section 85 of 87 of the complete genome	NT	AE001358.1	8.80E-01	0.7	11357	6202	1064
Chlamydla trachomatis section 85 of 87 of the complete genome	NT	AE001358.1	8.80E-01	0.7	11356	6202	1064
Oryctolagus cuniculus Rad51 (RAD51) mRNA, complete cds	NT	AF017729.1		0.8	15121	10050	4945
Mus musculus L23 mitochondrial-related protein (L23mrp) gene, complete cds	NT	U84903.1	9.00E-01	1.5	15104	10026	4919
Homo sapiens neurexin III-alpha gene, partial cds	NT	AF099810.1	9.00E-01	2.4	14491	9407	4282
Homo sapiens DKFZP564M2423 protein (DKFZP564M2423), mRNA	NT	7661625	9.00E-01	0.9	13432	8319	3170
ye85e12.s1 Soares fetal liver spieen 1NFLS Homo sapiens cDNA clone IMAGE:124558 3' similar to gb:K03002 60S RIBOSOMAL PROTEIN L32 (HUMAN);	EST_HUMAN	R02285.1	9.00E-01	4.8	11578	6415	1285
Rettus norvegicus mucin (MUC2) gene, partial cds	NT	U68172.1	9.10E-01	0.9	14523	9433	4310
AB200G8R Infant brain, LLNL array of Dr. M. Soares 1NIB Homo sapiens cDNA clone	EST_HUMAN	T26418.1	9.10E-01	1.0	13431	8318	3169
AB200G8R Infant brain, LLNL array of Dr. M. Soares 1NIB Homo sapiens cDNA clone	EST_HUMAN	T26418.1	9.10E-01	1.0	13430	8318	3169
Homo sapiens hypothetical protein FLJ20048 (FLJ20048), mRNA	NT	8923056	9.10E-01	0.5		7189	2077
S.carevisiae chromosome IV reading frame ORF YDL215c	NT	274263.1	9.20E-01	1.0	13891	8797	3658
Equus caballus microsatellite LEX013		AF075615.1	9.30E-01	1.5		10250	5155
Calothrix cpcB3 and cpcA3 gene for phycocyanin 3 subunits beta and alpha	NT	X06083.1	9.30E-01	1.3	14779	9685	4567
Bovine papillomavirus type 2, complete genome	NT	M20219.1	9.30E-01	0.8	14163	9082	3949
Bovine papillomavirus type 2, complete genome	NT	M20219.1	9.30E-01	0.8	14162	9082	3949
RC5-BT0503-271199-011-B01 BT0503 Homo saplens cDNA	EST_HUMAN	BE071172.1	9.30E-01	1.1	12889	7686	2594
Homo sapiens phytanoyi-CoA hydroxylase (PHYH) gene, exon 5	NT	AF242382.1	9.30E-01	1.1		6823	1700
Pimpinella brachycarpa zinc finger protein (ZFP1) mRNA, complete cds	INT	AF080595.1	9.40E-01	1.7		8330	3181
Bartonella clamdgelae RNA polymerase beta subunit (rpoB) gene, partial cds	NT	AF165990.1	9.40E-01	3.4		8314	3165
Mus musculus catenin src (Catns), mRNA	NT	6671685 NT	9.40E-01	0.8	11377	6225	1087
Mus musculus calenin src (Catns), mRNA	NT	6671685	9.40E-01	0.8	11376	6225	1087
IRON-REGULATED TRANSCRIPTIONAL REPRESSOR AFT1	/ISSPROT	P22149	9.50E-01	1.5	13447	8335	3186
Homo sapiens KIAA0914 gene product (KIAA0914), mRNA		7662375 NT	9.60E-01	0.9	15261	10181	5083
PM2-UM0053-240300-005-f12 UM0053 Homo sapiens cDNA	EST_HUMAN	AW799674.1	9.60E-01	1.3	14568	9477	4355
Bromus inermis putative cytosolic phosphoglucomutase (pgm1) mRNA, complete cds	NT	AF197925.1	9.60E-01	6.8	14549	9460	4337
Bromus Inermis putative cytosolic phosphoglucomutase (pgm1) mRNA, complete cds	NT	AF197925.1	9.60E-01	6.8	14548	9460	4337
Homo sapiens ASCL3 gene, CEGP1 gene, C11orf14 gene, C11orf15 gene, C11orf16 gene and C11orf17 gene	NT	AJ400877.1	9.60E-01	0.6	12935	7734	2645
we62e04.x1 Soares_thymus_NHFTh Homo sapiens cDNA clone IMAGE:2345694 3'	EST_HUMAN	AI660384.1	9.70E-01	1.0		10202	5106
AMINO-ACID ACETYLTRANSFERASE (N-ACETYLGLUTAMATE SYNTHASE) (AGS) (NAGS)	SWISSPROT	P22567	9.80E-01	0.8	10797	5676	512
Apple mosaic virus RNA 2 putative polymerase gene, complete cds	TN	AF174585.1	9.90E-01	1.2		8693	3553
Homo sapiens chiomosome 21 segment HS21C102	NT	AL163302.2	9.90E-01	0.9	12892	7689	2598

13092   4.6   8.70E-01   AA595863.1   EST_HUMAN     2.5   8.70E-01   X17012.1   NT     1.2544   1.0   8.60E-01   X17012.1   NT     13805   0.8   8.60E-01   AE002239.2   NT     13959   1.3   8.60E-01   AE002239.2   NT     13924   1.0   8.60E-01   AA078112.1   EST_HUMAN     14151   3.1   8.40E-01   AA078112.1   EST_HUMAN     12321   1.1   8.40E-01   AA078112.1   EST_HUMAN     12323   1.0   8.30E-01   AA078112.1   EST_HUMAN     15223   1.0   8.30E-01   AA078112.1   NT     13966   1.0   8.30E-01   AA078112.1   NT     13986   1.0   8.30E-01   AA078112.1   NT     15102   1.1   8.30E-01   AF083221.1   NT     15103   1.2   8.20E-01   AF14589.1   NT     13662   2.8   8.10E-01   AF14589.1   NT     13663   2.8   8.10E-01   AF191839.1   NT     13663   2.8   8.10E-01   AF191839.1   NT     13663   2.8   8.10E-01   AF1955066.1   NT     13663   2.8   8.10E-01   AF1955066.1   NT     13663   1.1   8.00E-01   AF127897.1   NT     13763   1.1   8.00E-01   AF127897.1   NT     13863   2.7   8.00E-01   AF127897.1   NT     13864   2.7   8.00E-01   AF127897.1   NT     13865   2.7   8.00E-01   AF127897.1   NT     13866   3.00E-01   AF127897.1   NT     13867   3.00E-01   AF127897.1   NT     13868   3.00E-01   AF127897.1   NT     13869   3.00E-01   AF127897.1   NT     13869   3.00E-01						١	Т	1
1996   13992   4.6   8.70E-01   AA595863.1   EST_HUMAN   Invalid a surginosa topolsomerase (popular plane)   10044   2.5   8.70E-01   AF121970.1   NT   2044e03-r1 Scares_felal_beat_ubithiny Hotologis thaliana DNA chromosome 4. 20   2.5   8.70E-01   AF121970.1   NT   2044e03-r1 Scares_felal_beat_ubithiny Hotologis thaliana DNA chromosome 7. 2059   11150   1.2   8.60E-01   AF121970.1   NT   2044e03-r1 Scares_felal_beat_ubithiny Hotologis thaliana DNA chromosome 7. 2059   20	N.:. miscallus gene for oviductal glycoprotein, complete cas		AF 12/05/.1	_	2.7	13293	9191	띯
1996   13992   4.6   8.70E-01   AA595863.1   EST_HUMAN   INJANI ISTEMBLE			Z54199.1		1.2			160
1996   13992   4.6   8.70E-01   A.595963.1   EST_HUMAN   Invalid it structures in the product factor it	Lesculentum DNA Altsa craig encoding 1-aminocyclopropane-1-carboxylic acts constant					╗	┰	
13952   4.6   8.70E-01   A595965.1   EST_HUMAN   Invaring Invari			AF208153.1		<u>.</u>			,
10044   2.5	strain LP97.09		W 132112:1		1.3	П		28
7936 13092 4.6 8.70E-01 AA596863.1 ESI_HUMAN   10044   2.5 8.70E-01   AF121970.1   NT   5833   12544   1.0 8.60E-01   X17012.1   NT   F5833   12544   1.0 8.60E-01   X17012.1   NT   F7331   12544   1.0 8.60E-01   AL161565.2   NT   T7331   12544   1.0 8.60E-01   AL161565.2   NT   T7331   12544   1.0 8.60E-01   AL161565.2   NT   T7331   12544   1.0 8.60E-01   AL161565.2   NT   T73308   1.3 8.60E-01   AL161565.2   NT   ANT   A			14207701	_	150			17
7996 13092 4.6 8.70E-01 AA596863.1 ESI_HUMAN   10044	Staphylococcus aureus partial pta gene for phosphate actylualisidade allere		A 1271510 1		2.8	Γ		341
7996 13092 4.6 8.70E-01 AA596863.1 ESI_HUMAN   10044   2.5 8.70E-01 AF121970.1 NT   5831   0.6 8.60E-01 X17012.1 NT   5831   12544   1.0 8.60E-01 X17012.1 NT   7331   12544   1.0 8.60E-01 AL161565.2 NT   13805   0.8 8.60E-01 AL161565.2 NT   13959   1.3 8.40E-01 AA078112.1   EST_HUMAN   13959   1.3 8.40E-01 AA078112.1   EST_HUMAN   13959   1.0 8.40E-01 AA078112.1   EST_HUMAN   13959   1.0 8.30E-01 AL161506.2 NT   13966   1.0 8.30E-01 AL161506.1 NT   13966   1.0 8.30E-01 AL161508.1 NT   13			AE055088 1	on o	2.8	Г		341
7996 13092 4.6 8.70E-01 AA595863.1 EST_HUMAN 10044 2.5 8.70E-01 X17012.1 NT 5631 0.6 8.60E-01 X17012.1 NT 7331 12544 1.0 8.60E-01 X17012.1 NT 7331 12544 1.0 8.60E-01 AL161565.2 NT 7331 12544 1.1 8.40E-01 AA078112.1 EST_HUMAN 12541 12523 1.0 8.40E-01 AA078112.1 EST_HUMAN 12541 12523 1.0 8.40E-01 AA078112.1 EST_HUMAN 12541 12523 1.0 8.30E-01 AA078112.1 EST_HUMAN 12541 12523 1.0 8.30E-01 AA078112.1 NT 710024 15102 1.1 8.30E-01 AA07816.1 NT 710024 15102 1.0 8.30E-01 AA07816.1 NT 710024 15103 1.0 8.30E-01 AA078916.1 NT 710024 15103 1.0 8.30E-01 AA078990.1 EST_HUMAN 12520 1.2 8.40E-01 AA07890.1 EST_HUMAN 12520 1.2 8.40E-01 AA07890.1 EST_HUMAN 12520 1.2 8.4	Homo sapiens MHC class 1 region		AF055066.1		3 2	Γ	Г	273
7996 13092 4.6 8.70E-01 AA595863.1 EST_HUMAN 10044 2.5 8.70E-01 AF121970.1 NT 5831 0.6 8.60E-01 X17012.1 NT 5831 12544 1.0 8.60E-01 X17012.1 NT 7331 12544 1.0 8.60E-01 AL161565.2 NT 7331 12544 1.0 8.60E-01 AL161565.2 NT 73959 1.3 8.60E-01 AL161565.2 NT 73959 1.3 8.60E-01 AA078112.1 EST_HUMAN 100984 14151 3.1 8.50E-01 AA078112.1 EST_HUMAN 100984 14151 3.1 8.40E-01 AA078112.1 EST_HUMAN 100984 14317 0.8 8.40E-01 AA078112.1 EST_HUMAN 100984 14317 0.8 8.40E-01 AA078112.1 EST_HUMAN 100984 14317 0.8 8.30E-01 AA078112.1 EST_HUMAN 100984 14310 0.8 8.30E-01 AA078112.1 EST_HUMAN 100984 14317 0.8 8.30E-01 AA0893 1 NT 100984 14318 1		Z	AF191839.1		3 7	14520	Г	4308
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7996 13092 4.6 8.70E-01 AA595863.1 EST_HUMAN   10044   2.5 8.70E-01 AF121970.1 NT   5631   0.6 8.60E-01 X17012.1 NT   5631   0.6 8.60E-01 X17012.1 NT   7331 12544   1.0 8.60E-01 AL161565.2 NT   73959   1.3 8.60E-01 AL161565.2 NT   10146 15224   1.0 8.60E-01 AL161565.2 NT   10146 15224   1.0 8.60E-01 AA078112.1   EST_HUMAN   10146 15224   1.0 8.60E-01 AA078112.1   EST_HUMAN   10146 15223   1.0 8.40E-01 AA078112.1   EST_HUMAN   10146 15223   1.0 8.40E-01 AA078112.1   EST_HUMAN   10146 15223   1.0 8.30E-01 AA078112.1   EST_HUMAN   10146 15203   1.0 8.30E-01 AB010879.1   NT   10024 15103   1.1 8.30E-01 AB010879.1   NT   10024 15103   1.1 8.30E-01 AA07816.1   NT   10024 15103   1.0 8.30E-01 AA07816.1   NT   10024 15103	11.3-CT0219-161199-031-C08 C10218 Forno sapistis Con-	HUMAN	w376990.1	_	e e		П	2043
7996 13092 4.6 8.70E-01 AA595863.1 EST_HUMAN   10044   2.5 8.70E-01 AF121970.1 NT   5631   0.6 8.60E-01 X17012.1 NT   5631   0.6 8.60E-01 X17012.1 NT   7331 12544   1.0 8.60E-01 AL161565.2 NT   73959   1.3 8.60E-01 AL161565.2 NT   10146 15224   1.0 8.60E-01 AL215419.1 EST_HUMAN   104667 13959   1.3 8.60E-01 AL215419.1 EST_HUMAN   104667 12321   1.1 8.40E-01 AA078112.1 EST_HUMAN   1046724   1.0 8.40E-01 AA078112.1 EST_HUMAN   1046726   1.0 8.30E-01 AB010879.1 NT   10024 15102   1.1 8.30E-01 AB010879.1 NT   10024 15103   1.1 8.30E-01 AA0816.1 NT   10024 15102   1.0	Mus musculus trophinin (Trin) gene, compiete cus		F145589.1		5 5	15103		5177
7996 13092 4.6 8.70E-01 AA595863.1 EST_HUMAN	Canls familiaris MHC DLA Class II DRB pseudogene DND		146016 1		0.1	15102		5177
7996 13092 4.6 8.70E-01 AA595863.1 EST_HUMAN	Canis familiaris MHC DLA Class II DRB pseudogene UNO2		146016.1			15103		4917
7996 13092 4.6 8.70E-01 AA595863.1 EST_HUMAN	Canis familiaris MHC DLA Class II DRB pseudogene DNB2		146048 4	-	1:1	15102	10024	4917
7996 13092 4.6 8.70E-01 AA595863.1 EST_HUMAN	Canis familiaris MHC DLA Class II URB pseudogene Cros				-		9742	4628
7996 13092 4.6 8.70E-01 AA595863.1 EST_HUMAN F. 10044 2.5 8.70E-01 AF121970.1 NT F. 5631 0.6 8.60E-01 X17012.1 NT F. 5631 12544 1.0 8.60E-01 X17012.1 NT F. 7331 12544 1.0 8.60E-01 AL161565.2 NT F. 13805 0.8 8.60E-01 AL161565.2 NT F. 13805 1.3 8.60E-01 AL161565.2 NT F. 10146 15224 1.0 8.60E-01 AL215418.1 EST_HUMAN F. 10146 15224 1.0 8.60E-01 AA078112.1 EST_HUMAN F. 10146 15224 1.0 8.40E-01 AA078112.1 EST_HUMAN F. 10146 15223 1.0 8.30E-01 AA078112.1 EST_HUMAN F. 10146 15223 1	bonucleotide transformylase (GART) genes, compiler ws				<u>.</u>			
7996 13092 4.6 8.70E-01 AA595863.1 EST_HUMAN FINAL FILEST FILES FI	ugu rubripes putative neurotransmitter receptors, TDR140W Horitory, and any				1.6	13966	8876	3739
7996 13092 4.6 8.70E-01 AA595863.1 EST_HUMAN 10044 2.5 8.70E-01 X17012.1 NT 10044 0.6 8.60E-01 X17012.1 NT 5631 0.6 8.60E-01 W69089.1 EST_HUMAN 5989 11150 1.2 8.60E-01 AL161565.2 NT 7331 12544 1.0 8.60E-01 AL161565.2 NT 8707 13805 0.8 8.60E-01 JA9724.1 NT 9867 13959 1.3 8.60E-01 JA9724.1 NT 10146 15224 1.0 8.60E-01 AE002239.2 NT 10146 15224 1.0 8.60E-01 AE002239.2 NT 10146 15223 1.0 8.40E-01 AA078112.1 EST_HUMAN 10145 15223 1.0 8.40E-01 AA078112.1 EST_HUMAN 10145 15223 1.0 8.40E-01 AA078112.1 EST_HUMAN 10146 15223 1.0 8.40E-01 AA078112.1 EST_HUMAN	vicotiana tabacum mRNA for chloropiast nbosomai protein E.io. willbox and giveinamide			_1_	2.6	13306	8207	3056
7996 13092 4.6 8.70E-01 AA595863.1 EST_HUMAN 10044 2.5 8.70E-01 X17012.1 NT 10044 0.6 8.60E-01 X17012.1 NT 10044 1.0 8.60E-01 X17012.1 NT 17331 12544 1.0 8.60E-01 AL161565.2 NT 18707 13805 0.8 8.60E-01 AL161565.2 NT 18867 13959 1.3 8.60E-01 U49724.1 NT 18867 13959 1.3 8.60E-01 U49724.1 NT 19084 14151 3.1 8.50E-01 AA078112.1 EST_HUMAN 1720 12321 1.1 8.40E-01 AA078112.1 EST_HUMAN 18234 14317 0.8 8.40E-01 AA078112.1 EST_HUMAN 18234 14317 0.8 8.40E-01 AA078112.1 EST_HUMAN 18234 14317 0.8 8.40E-01 AA078112.1 EST_HUMAN	vabidopsis thaliana DNA chromosome 4, contig ragment ivo. 10		١,		0.8	11018	5878	724
7996 13092 4.6 8.70E-01 AA595863.1 EST_HUMAN 10044 2.5 8.70E-01 AF121970.1 NT 5631 0.6 8.60E-01 X17012.1 NT 5989 11150 1.2 8.60E-01 W69089.1 EST_HUMAN 5989 11150 0.8 8.60E-01 AL161565.2 NT 7331 12544 1.0 8.60E-01 AL161565.2 NT 8707 13805 0.8 8.60E-01 AL161565.2 NT 9867 13959 1.3 8.60E-01 AL2724.1 NT 98687 13959 1.3 8.60E-01 AA078112.1 EST_HUMAN 9064 14151 3.1 8.50E-01 AA078112.1 EST_HUMAN 1720 12321 1.1 8.40E-01 AF143509.1 NT 9234 14317 0.8 8.40E-01 AF143509.1 NT 19234 14317 0.8 8.40E-01 AA078112.1 EST_HUMAN 15 10145 15223 1.0 8.40E-01 AA078112.1 EST_HUMAN	hermus unermophilus cytucilisms o co- (xy			2				
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7996 13092 4.5 8.70E-01 AA595863.1 EST_HUMAN 10044 2.5 8.70E-01 AF121970.1 NT 10044 0.6 8.60E-01 X17012.1 NT 5631 0.6 8.60E-01 W69089.1 EST_HUMAN 5989 11150 1.2 8.60E-01 4503210 NT 7331 12544 1.0 8.60E-01 AL161565.2 NT 8707 13805 0.8 8.60E-01 AL161565.2 NT 10146 15224 1.0 8.60E-01 AE002239.2 NT	H14C04 Chromosome 7 HeLa cDNA Library Homo sapiens CUNA Cione / 11 12007	MAN			0.8	14317	9234	4108
7996 13092 4.6 8.70E-01 AA595863.1 EST_HUMAN 10044 2.5 8.70E-01 AF121970.1 NT 10044 0.6 8.60E-01 X17012.1 NT 5631 0.6 8.60E-01 W69089.1 EST_HUMAN 5989 11150 1.2 8.60E-01 4503210 NT 7331 12544 1.0 8.60E-01 AL161565.2 NT 8707 13805 0.8 8.60E-01 AL161565.2 NT 10146 15224 1.0 8.60E-01 AE002239.2 NT 10146 15224 1.0 8.60E-01 AE002239.2 NT 10146 15224 1.0 8.60E-01 AI215419.1 EST_HUMAN					1:3	12321	7120	206
7996 13092 4.6 8.70E-01 AA595863.1 EST_HUMAN  10044 2.5 8.70E-01 AF121970.1 NT  10044 0.6 8.60E-01 X17012.1 NT  5831 0.6 8.60E-01 W69089.1 EST_HUMAN  5989 11150 1.2 8.60E-01 W69089.1 EST_HUMAN  7331 12544 1.0 8.60E-01 AL161565.2 NT  8867 13959 1.3 8.60E-01 AL161565.2 NT  10146 15224 1.0 8.60E-01 AL602239.2 NT	H14C04 Chromosome 7 HeLa cDNA Library Homo sapiens CDNA Clone (1)	HIMAN	1			14151	90g 420	3930
7996 13092 4.6 8.70E-01 AA595863.1 EST_HUMAN  10044 2.5 8.70E-01 AF121970.1 NT  10044 0.6 8.60E-01 X17012.1 NT  5831 0.6 8.60E-01 W69089.1 EST_HUMAN  5989 11150 1.2 8.60E-01 W69089.1 EST_HUMAN  7331 12544 1.0 8.60E-01 AL161565.2 NT  8707 13805 0.8 8.60E-01 L49724.1 NT  8867 13959 1.3 8.60E-01 U49724.1 NT	h11b01.x1 Soares NFL T_GBC_S1 Homo sapiens CUNA Cione IMAGE. 1011020	HIMAN			L	15224	10146	5046 6
7996 13092 4.6 8.70E-01 AA595863.1 EST_HUMAN  10044 2.5 8.70E-01 AF121970.1 NT  5831 0.6 8.60E-01 X17012.1 NT  5989 11150 1.2 8.60E-01 W69089.1 EST_HUMAN  7331 12544 1.0 8.60E-01 AL161565.2 NT  8707 13805 0.8 8.60E-01 AL161565.2 NT	higmydophila pneumoniae AR39, section 67 of 94 of the complete generite				L	13959	8867	3730
7996 13092 4.6 8.70E-01 AA595863.1 EST_HUMAN  10044 2.5 8.70E-01 AF121970.1 NT  5631 0.6 8.60E-01 X17012.1 NT  5989 11150 1.2 8.60E-01 W69089.1 EST_HUMAN  7331 12544 1.0 8.60E-01 H064655	rosophila metanogaster merlin (Dmerlin) mRNA, complete cos					13805	8707	3568
7996 13092 4.6 8.70E-01 AA595863.1 ESI_HUMAN 10044 2.5 8.70E-01 AF121970.1 NT 5631 0.6 8.60E-01 X17012.1 NT 5989 11150 1.2 8.60E-01 W69089.1 EST_HUMAN	rabidopsis thallana DNA chromosome 4, contig fragment No. 65		3210		L	12544	7331	2224
7996 13092 4.6 8.70E-01 AA595863.1 EST_HUMAN  10044 2.5 8.70E-01 AF121970.1 NT  5631 0.6 8.60E-01 X17012.1 NT  5989 11150 1.2 8.60E-01 W69089.1 EST_HUMAN	arebrotendinous xanthomatosis), polypeptide 1 (CYP27A1b) mRNA							
7996 13092 4.6 8.70E-01 AA595863.1 EST_HUMAN  10044 2.5 8.70E-01 AF121970.1 NT  5631 0.6 8.60E-01 X17012.1 NT	come earliers expectrome P450, subfamily XXVIIA (steroid 27-hydroxylase,			1		11150	5989	840
7996 13092 4.6 8.70E-01 AA595863.1 ESI_HUMAN 10044 2.5 8.70E-01 AF121970.1 NT	14 Sporce fetal heart NbHH19W Homo saplens cDNA clone IMAGE:343516 5				1	_	5631	466
7996 13092 4.6 8.70E-01 AA595863.1 EST_HUMAN IIIIIUSTITISTICS TO Pseudomonas aeruginosa topoisomerase (top) OhbR (ohbR), ortho-halobenzoate 1,2-dioxygenase al	at IGFII gene for Insulin-like growth factor II				lacksquare	_	10044	4938
7996 13092 4.6 8.70E-01 AA595863.1 ESI_HUMAN   IIII03111.51103	seudomonas aeruginosa topoisomerase (up), pura company protein OhbA (ohbA), OhbC hbR (ohbR), ortho-halobenzoate 1,2-dioxygenase beta-ISP protein OhbB (ohbB), and put>							
	nnoon 1.3 i vol. 3003			8.70E-01 AA		13092	798	2845

Table 4

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Homo sapiens hypothetical protein FLJ10793 (FLJ10793), mRNA	NT	8922672 NT	7.50E-01	13.9	10432	5305	4573
	EST_HUMAN	C14203.1	7.50E-01	0.9	13572	8460	3315
Homo sapiens polycystic kidney disease 2 (autosomal dominant) -NOTE: redefinition of symbol (PKD2) mRNA	NT	4505834 NT	7.50E-01	0.9		7087	1972
Homo sapiens FRA3B common fragile region, diadenosine triphosphate hydrolase (FHIT) gene, exon 5	NT	AF020503.1	7.50E-01	0.8	10847	5730	569
Homo sapiens chromosome 21 segment HS21C101	NT	AL163301.2	7.50E-01	0.5		5666	502
Cotumix cotumix japonica sub-species japonica beta-actin mRNA, partial cds	NT	AF199488.1	7.70E-01	2.9	14512	9421	4297
Cotumix cotumix japonica sub-species japonica beta-actin mRNA, partial cds	NT	AF199488.1	7.70E-01	2.9	14511	9421	4297
Mus musculus cytokine inducible SH2-containing protein (Cish), mRNA	NT	6753425	7.70E-01	2.3		8859	3722
Homo sapiens PRO1975 mRNA, complete cds	NT	AF118085.1	7.70E-01	4.5	13791	8689	3549
Homo sapiens UDP-N-acetyl-aipha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 7 (GalNAc-T7) (GALNAC-T7), mRNA	NT	8393408 NT	7.70E-01	0.8		8458	3313
CITRATE SYNTHASE	SWISSPROT	033915	7.70E-01	1.0	12968	7767	2680
MELIBIOSE CARRIER PROTEIN (THIOMETHYLGALACTOSIDE PERMEASE II)  (MELIBIOSE PERMEASE) (NA+ (LI+)/MELIBIOSE SYMPORTER) (MELIBIOSE  TRANSPORTER)	SWISSPROT	P02921	7.70E-01	0.7	11073	5924	772
	NT	7.70E-01 AF050157.1	7.70E-01	0.6		5863	709
Lycopersicon hirsutum ADP-glucose pyrophosphorylase large subunit (AGP-L1) mRNA, complete cds	NT	AF184345.1	7.70E-01	2.2	10464	5334	138
Rattus norvegicus transmembrane receptor Unc5H1 mRNA, complete cds	NT	U87305.1	7.80E-01	0.8	14810	9717	4603
EST371637 MAGE resequences, MAGF Homo sapiens cDNA	EST_HUMAN	7.80E-01 AW959567.1	7.80E-01	1.2	12548	7336	2229
HSC1KH041 normalized infant brain cDNA Homo sapiens cDNA clone c-1kh04	EST_HUMAN	Z43785.1	7.80E-01	0.6		6006	858
Human insulin receptor (allele 2) gene, exons 14, 15, 16 and 17	NT	M29930.1	7.90E-01	1.0		10182	5084
S.pneumoniae dexB, cap3A, cap3B and cap3C genes and orfs	NT	Z47210.1	7.90E-01	0.8	15253	10173	5075
S.pneumoniae dexB, cap3A, cap3B and cap3C genes and orfs	NT	Z47210.1	7.90E-01	0.8	15252	10173	5075
Mus musculus embigin (Emb), mRNA	NT	6753745 NT	7.90E-01	1.0	14721	9627	4508
Mus musculus embigin (Emb), mRNA	1	6753745 NT	7.90E-01	1.0	14720	9627	4508
601192033F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3535785 5'	EST_HUMAN	BE263612.1	7.90€-01	0.9		9329	4204
Gallus gallus SOX8 transcription factor (SOX8) mRNA, complete cds	NT	AF228664.1	7.90E-01	2.8	13725	8613	3472
Danio rerio Trp4-associated protein Tap1A (tap1A) mRNA, complete cds	NT	AF130459.1		0.8	12539	7325	2217
Oryctolagus cuniculus mRNA for mitsugumin29, complete cds	NT	AB004816.1		1.9	12538	7324	2216
Haemophilus influenzae Rd section 54 of 163 of the complete genome	NT	U32739.1		1.4		6760	1634
	TN	AB040885.1	7.90E-01	66.0		6713	1587
	T	7.90E-01 AE002130.1	7.90E-01	1.2		5853	698
Lymantria dispar nuclear polyhedrosis virus gene for DNA polymerase, complete cds	N	D11476.1	7.90E-01	1.3	10743	5612	446
G.gailus mRNA for nicotinic acetylcholine receptor (nAChR) beta 3 subunit	NT	X83739.2	8.00E-01	5.7	14647	9553	4432
Neisseria meningitidis serogroup A strain Z2491 complete genome; segment 7/7	NT	AL162758.2	8.00E-01	1.8		8782	3643

954 6100 11258 5.4	954 6100 11257 5.4	1	7499 12706 0.5	2	2200 7499 12705 0.5	1209 6340 11499 1.0	6340 11498 1.0	9000 14303 3:0	2270 14003 0.8	9240 14326 2.9	9240 14325 2.9	8176 13277 10.8	677 5832 10963 3.5 7	5064 10162 15239 1.2				5064 10162 15238 1.2 7			9772 14867 2.4	8873 5.1	3406 8548 13656 2.1 7.		8480 43280 1.2	7644 42748 0.5	5884	10222	9634 14726 1.0	9716 14809 4.8	4.4	3665 8804 13898 1.2 7.4	2295 7399 12608 1.0 /.4	
6.90E-01 U69674.1	6.90E-01 U69674.1	7.00E-01 ALIXXXXXIII			7.00E-01 N62412.1	7.0000000000000000000000000000000000000	7 00E 01 AB014514 1	7 00E-01 AB014514.1	Z73277.1	7.10E-01 7305360 NT	7.10E-01 7305360 NT	7.10E-01 AJ270777.1	7.10E-01 D21070.1		7 20E 01 AE106779 1			7.20E-01 AF196779.1			D90314.1	7.20E-01 AB010810.1		1	AF198100.1	AB009605.1	X79140.1	7 20E-01   29281.1	F260011	AE004466 4	AL163246.2	AF112538.1	AB011106.1	
NT regulator gene, partial cds	NT regulator gene, partial cds Candida albicans squalene epoxidase (C			lyz73e07.s1 Soares_multiple_scienosis_4	EST HUMAN IMAGE:288708 3' similar to contains Alu										NT and synaptophysiii gelies, wiiipiaw wo.	T54 protein, JM10 protein, A4 differ	Homo saplens transcription factor li	NT	T54 protein, JM10 protein, A4 differentiation and synaptophysin genes, complete cds;	Homo sapiens transcription factor if	NT  L.mesenteroides gene for sucrose phospirolylase (EG 2:1:1:1)			Giardia Intestinalis variant-specific surface	NT Fowlpox virus, complete genome				NT Homo saplens growth arrest-specific	1.0100	HIMAN		Inditio septetto (Arth) mRNA, complete cds	
	ase (CAERG1) gene, complete cds and translational	ase (CAERG1) gene, complete cds and translational	gment HS21C101	yz/3e07.s1 Soares_multiple_sciencisis_civinivaer rivinio septembers.	is Alu repetitive element;	vz73e07.s1 Soares multiple_sclerosis_2NbHMSP Homo sapiens cDNA clone	4 protein, partial cds	4 protein, partial cas	ng frame ORT TEXTOOC	NA COR CIDADE		18	npiete cas	g skeletal muscle calcium release channel (ryanodine	Cool and a Share	T54 protein, JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6,	Homo sanians transcription factor IGHM enhancer 3, JM11 protein, JM4 protein, JM5 protein.		T54 protein, JM10 protein, A4 differentiation-dependent protein, urbe can common process, and synaptophysin genes, complete cds; and L-type calcium channel a>	Homo saplens transcription factor IGHM enhancer 3, JM11 protein, JM4 protein, JM5 protein 6	illus prioriyaso (EO E. T. T. T. )	boschmdase (EC 2 4 1 7)	inase D. complete cds	urface protein (vsp41/-o) gene, vsp41/-o/7-1 chord	delle LATA Change Canda T. G/A.   ellele	2-receptor, complete cds		kinase (eIF-2a) mRNA, complete cds	Homo saplens growth arrest-specific 7 (GAS7), transcript variant b, mRNA	)) of the complete genome	64 Homo sapiens cDNA	nent HS21C046	molete cds	

6.90E-01   AA593330.1   EST_HUMAN   nn28a09.2 NIC] CGAP_Gas1 Homo sepilen for financial discs   6.90E-01   AE002271.2   NT	Homo saplens SPP2 gene for secreted phosphoprotein 24 precursor, exons 1-0	N	AJ272265.1	6.50E-01	4.2	14392	9311	4185
6418 11581 0.8 6.90E-01 AA593530.1 EST_HUMAN 8331 13443 1.6 6.90E-01 AE002271.2 NT   8485 13599 2.6 6.90E-01 AE002271.2 NT   8541 13649 0.9 6.90E-01 V17373.1 NT   8688 11245 1.0 6.80E-01 AF017784.1 NT   8688 11245 1.0 6.80E-01 AF017784.1 NT   9580 14885 1.3 6.80E-01 AF017784.1 NT   9580 14952 0.8 6.80E-01 AF213884.1 NT   9581 10642 6.7 6.70E-01 AF213884.1 NT   9581 12440 1.3 6.70E-01 AF213884.1 NT   9682 12440 1.3 6.70E-01 AF213884.1 NT   9683 15070 0.9 6.70E-01 AF28521.1 NT   9683 15070 0.9 6.70E-01 AF28521.1 NT   9685 13733 1.1 6.60E-01 AF075240.1 NT   9685 13733 1.1 6.60E-01 AF075240.1 NT   9685 13733 1.1 6.60E-01 AF075240.1 NT   9686 10884 1.4 6.50E-01 M75140.1 NT   9766 10884 1.4 6.50E-01 M75140.1 NT   9776 13865 5.1 6.50E-01 M75140.1 NT   9776 13865 5.1 6.50E-01 M75140.1 NT   9776 13865 5.1 6.50E-01 M75140.1 NT   9776 13866 5.1 6.50E-01 M75140.1 NT   97776 13866 5.1 6.50E-01 M75140.1 NT   97776 9776 9776 9776 9776 9776 9776	Homo sapiens interleukin 10 receptor, alpha (IL10KA) mRNA	NT	4504632	6.50E-01	1:1	14165	9084	3951
6418 11581 0.8 6.90E-01 AA593530.1 EST_HUMAN 8331 13443 1.6 6.90E-01 AA593530.1 EST_HUMAN 8331 13443 1.6 6.90E-01 AE002271.2 NT	Mus musculus gene for Tob2, complete cds	NT	AB041225.1	6.50E-01	5.1	13636	8529	3386
6418 11581 0.8 6.90E-01 AA593530.1 EST_HUMAN 8331 13443 1.6 6.90E-01 AA593530.1 EST_HUMAN 8331 13443 1.6 6.90E-01 AE002271.2 NT	H.vulgarls Na,K-ATPase alpha subunit mRNA, complete cds	NT	M75140.1		1.4	10885	5766	608
6418 11581 0.8 6.90E-01 AA593530.1 EST_HUMAN 8331 13443 1.6 6.90E-01 AE002271.2 NT 8485 13599 2.6 6.90E-01 AE002271.2 NT 8485 13599 2.6 6.90E-01 AE002271.2 NT 8541 13649 0.9 6.90E-01 AF017784.1 NT 8588 14685 1.0 6.80E-01 AF017784.1 NT 9860 14952 0.8 6.80E-01 AF017784.1 NT 9860 14952 0.8 6.80E-01 AF213884.1 NT 9860 14952 6.7 6.70E-01 AF213884.1 NT 997999999999999999999999999999999999	H.vulgaris Na,K-ATPase alpha subunit mRNA, complete cds	NT	M75140.1		1.4	10884	5766	608
6418 11581 0.8 6.90E-01 AA593530.1 EST_HUMAN 8331 13443 1.6 6.90E-01 AE002271.2 NT 8485 13599 2.6 6.90E-01 AE002271.2 NT 8541 13849 0.9 6.90E-01 6677734 NT 8541 13849 0.9 6.90E-01 AF017784.1 NT 86088 11245 1.0 6.80E-01 AF017784.1 NT 9589 14685 1.3 6.80E-01 AF017784.1 NT 9860 14952 0.8 6.80E-01 AF213884.1 NT 9861 10612 10.0 6.70E-01 AF213884.1 NT 9851 12440 1.3 6.70E-01 AF213884.1 NT 9852 12440 1.3 6.70E-01 AF213884.1 NT 9858 15070 0.9 6.70E-01 AV451864.1 EST_HUMAN 9858 15070 0.9 6.70E-01 AV479110.1 EST_HUMAN 9858 15070 0.9 6.70E-01 AF075240.1 NT 9858 13733 0.9 6.70E-01 AF075240.1 NT 9858 13733 1.1 6.60E-01 AF01536.1 NT 9858 13738 1.1 6.60E-01 AB011536.1 NT 9858 13738 1.1 6.60E-01 AB011536.1 NT 9858 13738 1.1 6.60E-01 AF07669.1 NT	gene, complete cds	3	U91328.1	6.60E-01	0.9		9149	4020
6418 11581 0.8 6.90E-01 AAS93530.1 EST_HUMAN 8331 13443 1.6 6.90E-01 AE002271.2 NT 8485 13599 2.6 6.90E-01 AE002271.2 NT 8485 13599 2.6 6.90E-01 AE002271.2 NT 85485 13599 2.6 6.90E-01 Y17373.1 NT 85481 13649 0.9 6.90E-01 AA554475.1 NT 9589 14865 1.3 6.80E-01 AA554475.1 NT 9860 14952 0.8 6.80E-01 AF213884.1 NT 9860 14952 0.8 6.70E-01 AF213884.1 NT 97935 12440 1.3 6.70E-01 AF213884.1 NT 9472 14564 1.0 6.70E-01 AA451864.1 EST_HUMAN 9889 15070 0.9 6.70E-01 AA451864.1 NT 9751 12759 0.9 6.70E-01 AF199339.1 NT 9751 12759 0.9 6.60E-01 AF199339.1 NT 9754 12954 1.3 6.60E-01 AF199339.1 NT 9825 13737 1.1 6.60E-01 AB011536.1 NT 97669.1 NT 9766	Human hereditary haemochromatosis region, histone 2A-like protein gene, hereditary haemochromatosis (HLA-H) gene, RoRet gene, and sodium phosphate transporter (NPT3)	-						
6418 11581 0.8 6.90E-01 AAS93530.1 EST_HUMAN 8331 13443 1.6 6.90E-01 AE002271.2 NT 8485 13599 2.6 6.90E-01 AE002271.2 NT 8485 13599 2.6 6.90E-01 AE002271.2 NT 85481 13649 0.9 6.90E-01 AF017784.1 NT 8589 14685 1.3 6.80E-01 AA654475.1 NT 9860 14952 0.8 6.80E-01 J00762.1 NT 9860 14952 0.8 6.80E-01 AF213884.1 NT 9860 14952 0.8 6.70E-01 AF213884.1 NT 9861 12440 1.3 6.70E-01 AF213884.1 NT 9472 14564 1.0 6.70E-01 AF213884.1 NT 9889 15070 0.9 6.70E-01 AF213894.1 NT 9754 12954 1.3 6.60E-01 AF795240.1 NT 9754 12954 1.3 6.60E-01 AF795240.1 NT 9754 12954 1.3 6.60E-01 AF795339.1 NT 9855 13737 1.1 6.60E-01 AF99339.1 NT 9855 13738 1.1 6.60E-01 AF99339.1 NT 9855 13738 1.1 6.60E-01 AF99339.1 NT	Calbicans random DNA marker, 282bp	NT	Y07669.1		3.1	13842	8747	3608
6418 11581 0.8 6.90E-01 AAS93530.1 EST_HUMAN 6331 13443 1.6 6.90E-01 AE002271.2 NT 8485 13599 2.6 6.90E-01 AE002271.2 NT 8585 13599 2.6 6.90E-01 AE002271.2 NT 8584 13649 0.9 6.90E-01 AF017784.1 NT 8588 11245 1.0 6.80E-01 AA854475.1 EST_HUMAN 9589 14685 1.3 6.80E-01 AA854475.1 NT 9860 14952 0.8 6.80E-01 AF213884.1 NT 9860 14952 0.8 6.80E-01 AF213884.1 NT 9860 14952 0.8 6.70E-01 AF213884.1 NT 9860 14952 0.8 6.70E-01 AF213884.1 NT 9860 14952 0.6 6.70E-01 AF213884.1 NT 987 12440 1.3 6.70E-01 AF213884.1 NT 9935 12759 0.9 6.70E-01 AF213884.1 NT 9935 12759 0.9 6.70E-01 AF213884.1 NT 9472 14564 1.0 6.70E-01 AF213884.1 NT 9472 14564 1.3 6.60E-01 AF075240.1 NT 9472 14564 1.3 6.60	Homo saplens mRNA for MEGF2, partial cds	NT	AB011536.1	6.60E-01	1.1	13738	8625	3484
6418 11581 0.8 6.90E-01 AA593530.1 EST_HUMAN 8331 13443 1.6 6.90E-01 AE002271.2 NT 8485 13599 2.6 6.90E-01 AE002271.2 NT 85845 13599 2.6 6.90E-01 AE002271.2 NT 8587 13700 1.0 6.50E-01 AA593530.1 EST_HUMAN AE002271.2 NT 8331 13649 0.9 6.90E-01 AA593475.1 NT 8587 13700 1.0 6.50E-01 AA593475.1 EST_HUMAN AE0088 11245 1.0 6.80E-01 AA593475.1 EST_HUMAN AE0088 11245 1.0 6.70E-01 AF213884.1 NT 8587 13700 1.0 6.50E-01 AF213884.1 NT 8587 13700 1.0 6.50E-01 AF199339.1 NT 8587 13700 1.0 6.50E-01 AF199339.1 NT 8587 13700 1.0 6.50E-01 AF199339.1 NT 85887 13700 1.0 6.50E-01 AF199339.1 NT	Homo sapiens mRNA for MEGF2, partial cds	NT	AB011536.1	6.60E-01	1.1	13737	8625	3484
6418 11581 0.8 6.90E-01 AA593530.1 EST_HUMAN 8331 13443 1.6 6.90E-01 AE002271.2 NT 8485 13599 2.6 6.90E-01 AE002271.2 NT 8485 13599 2.6 6.90E-01 AE002271.2 NT 6088 11245 1.0 6.80E-01 AF017784.1 NT 6088 11245 1.0 6.80E-01 AA854475.1 EST_HUMAN 9589 14685 1.3 6.80E-01 J00762.1 NT 9860 14952 0.8 6.80E-01 J00762.1 NT 5517 10642 6.7 6.70E-01 AF213884.1 NT 7935 12440 1.3 6.70E-01 AF213884.1 NT 9872 14564 1.0 6.70E-01 AF186073.1 NT 9872 14564 1.0 6.70E-01 AF186073.1 NT 9872 14564 1.0 6.70E-01 AV0799110.1 EST_HUMAN 7551 12759 0.9 6.70E-01 AF19939.1 NT 7754 12954 1.3 6.60E-01 AF19939.1 NT	Homo sapiens sema domain, seven unoncospondin repeats type i and t	NT	4506880	6.60E-01	1.0	13700	8587	3445
6418   11581   0.8   6.90E-01   AA593530.1   EST_HUMAN   Inn28a09.s1 NCI_CGAP_Gas1 Homo saple	Homo saplens lens epithelium-derived growth factor gene, alternatively spliced, complete cds	NT	AF199339.1		1.3	12954	7754	2667
6418   11581   0.8   6.90E-01   AA593530.1   EST_HUMAN   Inn28a09.s1 NCI_CGAP_Gas1 Homo sapid	Homo saplens SLIT1 protein (SLIL2) mRNA, partial cds	NT	AF075240.1		0.9	12759	7551	2452
6418         11581         0.8         6.90E-01         AA593530.1         EST_HUMAN         Inn28a08.91 NCI_CGAP_Gas1 Homo sapid           8331         13443         1.6         6.90E-01         AE002271.2         NIT         Chiamydia muridarum, section 3 of 85 of tr           8485         13599         2.6         6.90E-01         A677734         NIT         Mus musculius rail guanine nucleotide diss           8541         13649         0.9         6.90E-01         AF017784.1         NIT         2811           8541         13649         0.9         6.90E-01         AF017784.1         NIT         Giardia intestinalis carbamate kinase gene           6724         11894         0.6         6.80E-01         AA854475.1         EST_HUMAN         3' similar to gb:X56411_mat ALCOHOL_DI           8589         14885         1.3         6.80E-01         AA5521 NIT         Homo sapliens hevin (HEVIN) mRNA           9860         14952         0.8         6.70E-01         AF213884.1         NIT         Raithocded) prolactin gene : exon Ill and fit           5517         10642         6.7         6.70E-01         AF213884.1         NIT         Raithocded) prolactin gene : exon lill and fit           7935         12440         1.3         6.70E-01         AF213884.1 <td>Dendroblum fimbriatum mRNA for phosphoenolpyruvate carboxylase, partial</td> <td>NT.</td> <td>AJ252942.1</td> <td></td> <td>0.9</td> <td>15343</td> <td>10274</td> <td>5182</td>	Dendroblum fimbriatum mRNA for phosphoenolpyruvate carboxylase, partial	NT.	AJ252942.1		0.9	15343	10274	5182
6418   11581   0.8   6.90E-01   AA593530.1   EST_HUMAN   Inn28809.s1 NCI_CGAP_Gas1 Horno sapid	xa95g12.x1 NCI_CGAP_Co17 Homo sapiens cDNA clone IMAGE:2574598 3	<b>B</b> 1	AW079110.1	6.70E-01	0.9	15070	9989	4881
6418         11581         0.8         6.90E-01         AA593530.1         EST_HUMAN         nn28a09.s1 NCI_CGAP_Gas1 Homo saple and transplant of 85 of the 6331         13443         1.6         6.90E-01         AE002271.2         NIT         Chlamydia muridarum, section 3 of 85 of the 631 the string of 85 of the 6331         Chlamydia muridarum, section 3 of 85 of the 6331         Mus musculus rail guanine nucleotide dissonal rail rail rail musculus rail guanine nucleotide dissonal rail rail rail rail rail rail rail ra	S.tuberosum mRNA for glucose-6-phosphate dehydrogenase	NT	X74421.1	6.70E-01	1.0	14564	9472	4350
6418         11581         0.8         6.90E-01         AA593530.1         EST_HUMAN         mn28a09.s1 NCL CGAP_Gas1 Homo saple and the saple and the section 3 of 85 of the sage and the s	Mus musculus Wiskott-Aldrich syndrome protein (Wasp), mRNA	TIN	6678580	1	3.7	13224	8117	2966
6418         11581         0.8         6.90E-01         AA593530.1         EST_HUMAN         mn28a09.s1 NCI_CGAP_Gas1 Homo saple saple for the first sage of the first sa	Drosophila melanogaster Mst85C gene, complete cds; NMDMC isoform (Nmdmc) gene, complete cds, alternatively spliced; and transcription factor (Relish) gene, complete cds, alternatively spliced	N	AF186073.1		1.3	12440	7935	2120
6418         11581         0.8         6.90E-01         AA593530.1         EST_HUMAN         mn28a09.s1 NCI_CGAP_Gas1 Homo saple sapl	zx12g12.s1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:/85310 3 similar to contains element TAR1 repetitive element;	EST_HUMAN	AA451864.1		0.6	12419	7211	2100
6418         11581         0.8         6.90E-01         AA593530.1         EST_HUMAN         mn28a09.s1 NCI_CGAP_Gas1 Homo saple           8331         13443         1.6         6.90E-01         AE002271.2         NT         Chlamydia muridarum, section 3 of 85 of tr           8485         13599         2.6         6.90E-01         6677734         NT         Mus musculus ral guanine nucleotide disso           8541         13649         0.9         6.90E-01         Y17373.1         NT         2811           8541         13649         0.9         6.90E-01         AF017784.1         NT         Giardia Intestinalis carbamate kinase gene           6088         11245         1.0         6.80E-01         AA654475.1         EST_HUMAN         3' similar to gb:X56411_ma1 ALCOHOL DI           9724         11894         0.6         6.80E-01         AA654475.1         EST_HUMAN         3' similar to gb:X56411_ma1 ALCOHOL DI           9860         14952         0.8         6.80E-01         AA654475.1         EST_HUMAN         Homo sapiens nuclear factor of kappa light           5481         10612         10.0         6.70E-01         AF213884.1         NT         Homo sapiens nuclear factor of kappa light	Homo sapiens nuclear factor of kappa light polypeptide gene enhancer in B-cells 1 (NFKB1) gene, complete cds	NT		6.70E-01	6.7	10642	5517	336
6418         11581         0.8         6.90E-01         AA593530.1         EST_HUMAN         mn28a09.s1 NCI_CGAP_Gas1 Homo saple           8331         13443         1.6         6.90E-01         AE002271.2         NT         Chlamydia muridarum, section 3 of 85 of the section 3 of 85 of 85 of 85 of the section 3 of 85	er factor of kappa light	NT			10.0	10612	5481	295
6418         11581         0.8         6.90E-01         AA593530.1         EST_HUMAN         mn28a09.s1 NCI_CGAP_Gas1 Homo saple           8331         13443         1.6         6.90E-01         AE002271.2         NT         Chlamydia muridarum, section 3 of 85 of the section 3 of 85 of 8		NT	4758521	6.80E-01	0.8	14952	9860	4749
6418         11581         0.8         6.90E-01         AA593530.1         EST_HUMAN         mn28a09.s1 NCI_CGAP_Gas1 Homo saple           8331         13443         1.6         6.90E-01         AE002271.2         NT         Chlamydia muridarum, section 3 of 85 of the section 3 of 85 of 8	Rat(hooded) prolactin gene : exon iii and flanks	TN		6.80E-01	1.3	14685	<b>9589</b>	4469
6418         11581         0.8         6.90E-01         AA593530.1         EST_HUMAN           8331         13443         1.6         6.90E-01         AE002271.2         NT           8485         13599         2.6         6.90E-01         6677734         NT           8541         13649         0.9         6.90E-01         Y17373.1         NT           6088         11245         1.0         6.80E-01         AF017784.1         NT	aj75a05.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1402256 3' similar to gb:X56411_ma1 ALCOHOL DEHYDROGENASE CLASS II PI CHAIN (HUMAN);	EST_HUMAN	AA854475.1		0.6	11894	6724	2799
6418         11581         0.8         6.90E-01         AA593530.1         EST_HUMAN           8331         13443         1.6         6.90E-01         AE002271.2         NT           8485         13599         2.6         6.90E-01         6677734         NT           8541         13649         0.9         6.90E-01         Y17373.1         NT		NT		6.80E-01	1.0	11245	8809	921
6418         11581         0.8         6.90E-01         AA593530.1         EST_HUMAN           8331         13443         1.6         6.90E-01         AE002271.2         NT           8485         13599         2.6         6.90E-01         6677734         NT	Mus musculus mRNA for immunoglobulin gamma heavy chain variable region, Isolate PC 2811	NT		6.90E-01	0.9	13649	8541	3399
6418 11581 0.8 6.90E-01 AA593530.1 EST_HUMAN 8331 13443 1.6 6.90E-01 AE002271.2 NT	Mus musculus rai guanine nucleotide dissociation stimulator (Kgds), mKNA	N,	6677734	6.90E-01	2.6	13599	8485	3341
6418 11581 0.8 6.90E-01 AA593530.1 EST_HUMAN	Chlamydia muridarum, section 3 of 85 of the complete genome	T			1.6	13443	8331	3182
	nn28a09.s1 NCI_CGAP_Gas1 Homo saplens cDNA clone IMAGE:1085176 3'	EST_HUMAN	AA593530.1		0.8	11581	8 2	1288

	0110011101	T40472	5.805-01	0.5	12169	7 6985	1867	_
SIM1 PROTEIN	CWISSPROT	AF 102/30.1		4.1		9255	4129	
Rattus norvegicus cenexin 2 mRNA, partial cds	1		5.90=-07	4.9	13487	8380	3232	
Homo saplens chromosome 21 segment HS21C067	1		5.90E-01	4.9		8380	3232	
Homo saplens chromosome 21 segment HS21C067	1.			2.3	12663	7456	2354	
wm22f01.x1 NCI_CGAP_Ut4 Homo sapiens cDNA clone IMAGE:243bb97 3	EST HUMAN	A 80008 1	0.90	ءَ ا	Γ	Γ	92 28	_
Haemophilus influenzae Rd section 16 of 163 of the complete Benonite	3	1139701 1	5 000 01	3 -	Τ	П	3/44	
	N <sub>1</sub>	AJ233396.1		100	Т	7	1008	
cds	NT	AF065253.1	6,00E-01	0.6	11635	8467	433	
Human respiratory syncytial virus strain CH93-53b attachment protein (G) gene, complete			0.000	0.8		5712	549	_
Homo sapiens adaptor-related protein complex 3, mu 2 subunit (CLA20), mkiva	NT	802999	0.000	200	107/5		486	
Homo sapiens DNA for amyloid precursor protein, complete cus	NT			3   5	10110	Τ.	4931	
Rattus norvegicus dihydroxypolyprenylbenzoate metnytransierase iliniari, compressione	NT	L20427.1	6 10E-01	•	45440			<del>- i</del>
Rattus norvegicus dinydroxypolyprenyluenzuata manylusi socialisti care	NT	L20427.1	6.10E-01	1.0	15109	10037	4931	
	2	AF 153/04.1	6.10E-01	1.3		8107	2956	_
Tetrahymana thermophila dynein heavy chain (DYH8) gene, partial cds	N	9/6	_	1.6		7447	2345	_
contains element MSR1 repetitive element;  Mus muscultus secreted acidic cysteine rich glycoprotein (Sparc), mRNA	EST_HUMAN		1	1.0	15173	10105	5002	
tr55d08.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2222223 3 Sillillar to			0.205		14909	9866	4755	_
Homo saplens major histocompaubility Children, wasser, was the company of the com	Y.	4504402 NT	6 30E 01		1	Т	2000	т
D.melanogaster mRNA for metabotropic glutamate receptor	NT				14200	015	2983	T
Lycopersicon esculentum p69a gene, complete cuo	NT				12000	1	204	Т
Gallus gallus bone morphogeneuc protein 1 (plant 1) Itiliana, parati	NT			4	1282	1	2534	T
Gallus gallus bone morphogeneuc protein 1 (BMF ) Illicator, partial ods	NT			1	13835	Τ	2110	Т
Shigella flexneri multi-antibiotic resistance locals	NT		_ 1	14	3/35	100	1905	Т
related protein 1	EST_HUMAN	AA365227.1	6.30E-01	in	11800	6831	A FOR	
ESTY-5035 Pineal gland II Homo sapiens cDNA 5' end similar to similar to orthodenticle-	2	U32689.1	6.30E-01	0.7	10809	5688	524	т
Homophilius Influenzae Rd section 4 of 163 of the complete genome	SWISSPROI		1_	1.5	10728	5594	427	Т
M.MUSCUIUS WIN GEITE  RECURSOR (CLONE PFHRP-III)	NT			0.8	14599	9511	4389	_
M.musculus wnn gene	NT	Y12488.1	$\blacksquare$	0.8	14598	9511	4380	Т
Mus musculus dystroglycan 1 (DAG I) gelle, excits I aira = City	NT		-	2.5	13880	25.5	36.45	Т
Drosophila melanogaster 8kd dynein light diain innive, complete cds	NT			3 8	10567	1020		Т
Acetobacter xylinum putative ATP binding protein delta-Acetobacter xylinum putative xyli	NT	U37258.1	6.50E-01	o 19		3		
Homo sapiens potassium inwardy-tecurying common, successive of the and GDP.	4	4826799 NT	6.50E-01	1.0	15207	10131	5031	
property paragraphs of KCNJ5) mRNA	2	U28921.1	6.50E-01	2.3	15164	10097	4994	ĺ
ATPase gamma subunit ilin	•			$\perp$		325	1213	- 1
Arabidopsis thaliana DNA chromosome 4, come inaginaris in the second of mitochondrial	17	AL161539.2 NT	6.50E-01 A	0.9	14422	10000	4315	1
applie fragment No. 39								

Table 4

Urosophila melanogaster mRNA for 15,15' beta carotene dioxygenase (beta-diox gene)	2	AJZ/608Z.1	0.406-01	0.8	1000	/31/	2208
Chlamydophila pneumoniae AR39, section 74 of 94 of the complete genome	T		5.40E-01	1.0		7171	2059
QV4-NN0040-070400-160-c04 NN0040 Homo saplens cDNA	EST_HUMAN	AW896087.1	5.40E-01	0.8	11538	6379	1250
Pseudomonas syringae pv. tomato strain DC3000 AvrE (avrE), HrpW (hrpW), and GstA (gstA) genes, complete cds; and unknown genes	NT	AF232006.1	5.40E-01	0.9	10849	5731	570
Pseudomonas syringae pv. tomato strain DC3000 AvrE (avrE), HrpW (hrpW), and GstA (gstA) genes, complete cds; and unknown genes	NT	AF232006.1	5.40E-01	0.9	10848	5731	570
Homo sapiens KIAA0929 protein Msx2 interacting nuclear target (MINT) homolog (KIAA0929), mRNA	NT	7657266 NT	5.40E-01	1.3	10466	5335	139
Homo sapiens KIAA0929 protein Msx2 interacting nuclear target (MINT) homolog (KIAA0929), mRNA	NT	7657266 NT	5.40E-01	1.3	10465	5335	139
FOS-RELATED ANTIGEN-1	SWISSPROT	P48755	5.50E-01	1.3	13867	8773	3634
Rabbit oral papillomavirus, complete genome	NT	AF227240.1	5.50E-01	3.1	13458	8345	3196
yo18a10.s1 Soares adult brain N2b5HB55Y Homo sapiens cDNA clone IMAGE:178266 3'	EST_HUMAN	H46219.1	5.50E-01	1.4		8179	3027
Homo sapiens superkiller viralicidic activity 2 (S. cerevisiae homolog)-like (SKIV2L), mRNA	NT	5902085 NT	5.50E-01	1.3	13140	8039	2888
GAG POLYPROTEIN (CONTAINS: INNER COAT PROTEIN P12; CORE PROTEIN P15; CORE SHELL PROTEIN P30; NUCLEOPROTEIN P10]	SWISSPROT	P03341	5.50E-01	1.0	12956	7755	2668
GAG POLYPROTEIN [CONTAINS: INNER COAT PROTEIN P12; CORE PROTEIN P15; CORE SHELL PROTEIN P30; NUCLEOPROTEIN P10]	SWISSPROT	P03341	5.50E-01	1.0	12955	7755	2668
Rattus norvegicus Propionyl Coenzyme A carboxylase, beta polypeptide (Pccb), mRNA	NT	8393912 NT	5.50E-01	1.1	11481	6325	1193
Homo sapiens chloride intracellular channel 4 like (CLIC4L), mRNA	NT	7330334 NT	5.60E-01	0.8	14930	9838	4726
Chloken TBP gene, exon8, complete cds	TN	D83135.1	5.60E-01	0.8	14350	9272	4146
	NT	AL161501.2	5.60E-01	0.8	14041	8945	3808
	NT	AB018283.2	5.60⋶-01	1.2	13576	8463	3318
Homo saplens mRNA for KIAA0740 protein, partial cds	TN	AB018283.2	5.60E-01	1.2	13575	8463	3318
Rattus norvegicus cAMP-regulated guanine nucleotide exchange factor il (cAMP-GEFII) mRNA, partial cds	TN	U78517.1	5.70E-01	2.2	15359	10292	5201
Homo saplens T cell receptor beta chain (BV6S7*2-BJ1S1) mRNA, partial cds	NT	5.70E-01 AF011581.1	5.70E-01	1.7	14065	8966	3829
Populus euramericana peacs-2 mRNA for 1-aminocyclopropane-1-carboxylate synthase, complete cds	NT	AB033503.1	5.70E-01	2.4		8601	3460
Mus musculus mRNA for membrane-bound transferrin-like protein p97, complete cds	NT	AB024336.1	5.70E-01	0.9	12145	7928	1840
Mus musculus mRNA for membrane-bound transferrin-like protein p97, complete cds	NT	AB024336.1	5.70E-01	0.9	12144	7928	1840
Escherichia coli genomic DNA. (4.1 - 6.1 min)	TN	D83536.2	5.70E-01	. 2.0	11064	5917	764
Megaselia scalaris sex-lethal homolog (Megsxl) gene, partial cds, alternatively spilced products	NT	AF110846.1	5.80E-01	1.0		9802	4690
Vigna radiata mRNA for proton pyrophosphatase, complete cds	NT	5.80E-01 AB009077.1	5.80E-01	2.8	14,622	9533	4413
Homo sapiens KIAA0335 gene product (KIAA0335), mRNA	N.T	7662059 NT	5.80E-01	1.0	14127		3900
Mycopiasma arthritidis strain H39 putative adhesin MAA1 (maa1) gene, complete cds	NT	AF154923.1	5.80E-01	2.0	13651	85	3401

1 10110	4000002	91	5.00E-01	1.4	12403	Т	2007	_
	1	-01 P96380	5.10E-01	3 2.9		_	4094	
TBANSCRIPTION-REPAIR COUPLING FA	9.1	1	5.10E-01	3.8	14199	-1	3984	_
		_	5.101-01	=======================================		6758	1632	
R norvegicus mRNA for mammailan fusca protein		4	0.100-0-		10914	5791	632	_
Polyangium viteilinum (strain PI vt1) 16S rRNA gene		_	5.10=-01	Γ		5791	632	_
Polyangium viteilinum (strain Pl vt1) 16S rRNA gene		A 1923	J. 101-01			5759	601	-
Human adrenodoxin reductase gene, exons 3 to 12		01 M58509 1			Π	\	4949	
Mus musculus vanilloid receptor-like protein 1 (viii), iliiviv	710644	_	5 205 01	T	13618	1	3582	_
	1.2 NT	-01 U82671.2	5 20F-01					
encoding chloroplast protein, complete cos Homo sapiens chromosome Xq28 melanoma antigen family A2a (MAGEA2A), melanoma	269.1 NT	-01 AF020269.1	5.20E-01	==		8719	3580	1
1	165.1 EST_HUMAN	01 AA984165.1	5.20E-01	1.9	13646	8539	3397	
Single Control of the State of		5.20E-01  AL 110700.	5.202	1.8		8502	3359	7
Botrytis cinerea strain T4 cDNA library under conditions of nurogen deprivation		5.20E-01 D73443.	2,200	1.2		8348	3199	٦
tobacter vinelandii icd gene for isocitrate	NT	5.20E-01 U65942.1	5.20E-	1.9	13330	8232	3081	
Cilainyadpinia average of								T
Chlomydophila abortus strain S26/3 POMP91A and POMP90A precursor, genes, complete	283.2 INT	01 AB018283.2	5.20E-01	1.0	12418	7210	2099	Т
Homo sapiens mRNA for KIAA0740 protein, partial cds			5.20E-01	1.8		<u>8</u>	1843	Т
Homo spilens chromosome 21 segment HS21C085			5.20E-	1.0	11462	6308	1174	Т
1_		5.20E-01 Q9WV30	5.20E-	2.6	11436	6283	1148	
NUCLEAR FACTOR OF ACTIVATED T CELLS 5 (1 CELL INVISION FACTOR NEATS)			0.200	3.8	11100	595	799	
Drosophila melanogaster helix-loop-helix mktva, complete cus			5.000.01	3 2		9243	4117	
Mycoplasma genitalium section 9 of 51 of the complete genome		1 139687 1	5.000	2.6		9053	3919	Π
Xenopus laevis LDL receptor-1 gene, 5' flank	100.1		5.30E-01	2.9	13463	8353	3205	T
Homo sapiens secreted C-type lectin precursor (LSLCL) gene, complete cds	06328	1_	5.30E-01	3.0	13041	7839	2755	
Homo sapiens protein growth was propried to the sapiens protein growth and the sapient growth growt						100	27.30	Т
mRNA mRNA (PTPRZ1)	4506328 NT	<u> </u>	5.30E-01	3.0	13040	7830	3766	
Homo saplens protein tyrosine phosphatase, receptor-type, zeta polypeptide 1 (PTPRZ1)	4506210 NT		5.30E-01	0.9	12643	7435	2332	
Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 3 (PSMC3) ITINIVA				6.0	12410	7204	2093	T
Brassica oleracea val. capitata pricopromptico	9.1 NT	1	5 30E-01	0			2607	Γ
Brassica dienade var. vapriare prosprioripase D2 (PLD2) gene, complete cds	9.1 NT		5.30E-01	0.9	12400	3 5	303	
genes,>	3.1 NT	1 AF019413.1	5.30E-01	0.7	10792	7 20 20 20	ñ >	
cytochrome P450 21-hydroxylase (CYP21B), complement component C4 (C4B) G11, helicase (SKI2VV), RD, complement factor B (Bf), and complement component C2 (C2)	•							- !
Homo saniens HLA class III region containing tenascin X (tenascin-X) gene, partial cds;								

20	2087 7199	12404	1.4	5.00E-01	4885552NT	ZNT	Homo sapiens postmeiotic segregation increased 2-like 9 (PMS2L9), mRNA
20	2097 7208		1.3	5.00E-01	5.00E-01 AF008210.1	Z	Buchnera aphidicola genomic fragment containing (chaperone Hsp60) groEL, DNA biosynthesis initiating protein (dnaA), ATP operon (atpCDGAHFEB), and putative chromosome replication protein (gldA) genes, complete cds; and termination factor Rho (rho) gene>
	.,						Buchnera aphidicola genomic fragment containing (chaperone Hsp60) groEL, DNA biosynthesis initiating protein (dnaA), ATP operon (atpCDGAHFEB), and putative chromosome replication protein (gidA) genes, complete cds; and termination factor Rho (rho)
20		Π	1.3	5.00E-01	5.00E-01 AF008210.1	NT	gene>
25	Т	Г	0.9	5.00E-01	5.00E-01 U50730.2	Z Z	_
25	2543 7639	12840	0.9	5.00E-01	5.00E-01  U50730.2	NT	
36	3688 8826	13920	0.8	5.00E-01	U55574.1	Z,	Mus musculus anti-DNA immunoglobulin light chain IgM mRNA, antibody 363p. 138, partial cds
37	3797 8934	14027	3.4	5.00E-01	AB033010.1	NT	Homo sapiens mRNA for KIAA1184 protein, partial cds
18	1864 6982	12166	1.4	4.90E-01	U40869.1	NT	Cavia porcellus pulmonary surfactant protein A (SP-a) mRNA, complete cds
21	2111 7222	12431	1.1	4.80E-01	L01652.1	NT	Human ventricular myosin light chain 2 gene, seven exons
4577	77 9362		i.	4.80E-01	4504850 NT	N.	Homo sapiens potassium channel, subfamily K, member 5 (TASK-2) (KCNK5) mRNA, and translated products
1950	50 7067	12263	0.8	4.70E-01	X76536.1	NT T	S.tuberosum L. (Desiree) PHA1 mRNA
3674	1 —	13907	1.3	4.60E-01	4.60E-01 AW818638.1	EST_HUMAN	RC1-ST0278-040400-018-b06 ST0278 Homo saplens cDNA
5087	87 10185	Г	1.0	4.60E-01	M11267.1	Z	Bovine steroid 21-hydroxylase gene (P-450-c21) gene, complete cds
و	Т	Г	1.0	4.50E-01	AA249416.1	EST_HUMAN	[3550.seq.F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA 5'
1847	П	Γ	1.3	4.50E-01	AB033078.1	N,	
1847	47 6965	12151	1.3	4.50E-01	AB033078.1	NT	Homo sapiens mRNA for KIAA1252 protein, partial cds
1869	59 6987	12171	0.6	4.50E-01	4.50E-01 AE001931.1	NT	Delnococcus radiodurans R1 section 68 of 229 of the complete chromosome 1
1869	39 6987	12172	0.6	4.50E-01	4.50E-01 AE001931.1	TN	Delnococcus radiodurans R1 section 68 of 229 of the complete chromosome 1
2841	11 7992	13090	4.9	4.50E-01	AA677086.1	EST_HUMAN	zj55d02.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo saplens cDNA clone IMAGE:454179
3275	75 8420	13528	4.0	4.50E-01	Q05793	SWISSPROT	BASEMENT MEMBRANE-SPECIFIC HEPARAN SULFATE PROTEOGLYCAN CORE PROTEIN PRECURSOR (HSPG) (PERLECAN) (PLC)
3331	8475	13588	1.1	4.50E-01	AF126378.1	NT	Mus musculus DNA polymerase epsilon catalytic subunit (Pole) gene, exons 2 through 12
3942	12 9075		1.4	4.50E-01	Q28247	SWISSPROT	COLLAGEN ALPHA 5(IV) CHAIN
3982	32 9114	14197	1.1	4.50E-01	AI708908.1	EST_HUMAN	as96e09.x1 Barstead aorta HPLRB6 Homo saplens cDNA clone IMAGE:2353480 3'
4085			4.0		AW873495.1	EST_HUMAN	ho60g02.x1 Soares_NFL_T_GBC_S1 Homo saplens cDNA clone IMAGE:3041810 3'
1991	7107		0.9	4.40E-01	6680503	IN	Mus musculus integral membrane-associated protein 1 (Itmap1), mRNA
2340	10 7442	12650	1.3	4.40E-01	P49765	SWISSPROT	VASCULAR ENDOTHELIAL GROWTH FACTOR B PRECURSOR (VEGF-B) (VEGF RELATED FACTOR)
3274	4 8419	13526	1.0	4.40E-01	AF058790.1	NT	Rattus norvegicus SynGAP-b mRNA, complete cds
3274		13527	1.0			NT	Rattus norvegicus SynGAP-b mRNA, complete cds
4141	11 9267		1.3	4.40E-01	BE378707.1	EST_HUMAN	601237139F1 NIH_MGC_44 Homo saplens cDNA clone IMAGE:3609393 5'

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1469	1316	1023	5185	4373	4208	4177	3263	2910	2910	2678	1592	1078	4671	4599	4545	3803	3585	3558	1904	1335	5017	4875	4306	4306	4138	4059	3221	3030	2943	1585	961	405	405	4924	4464
6596	6445	6162	10277	9495	9333	9303	8410		8060	$\neg$		7	9783	9713	9664	8940	T	П	$\neg$	_	_	Т	Т	Т	Т	Т	Т	8174	7007	6711	6106	5573	5573	$\Box$	9584
	11611	11315				14384	13517	13166	13165	$\neg$		Ī	14882	14805		14035	13820	13785		11631	15191		10711	10710	14345	14269	3	13074		11883	11264	10711	10710		
1.5	6	1.3	0.9	0.8	1.1	2,6	=======================================	1.8	1.8	0.6	1.0	0.6	3.1	5.0	3.6	1.0	1.1	4.8	0.9	5	2.1	-1		.5	=	1.2	1.5	00	5		0.7	0.7	0.7	0.9	8.5
4.00E-01	4.00E-01	4.00E-01	4.10E-01	4.10E-01	4.10E-01	4.10E-01	4.10E-01	4.10E-01	4.10E-01	4.10E-01	4.10E-01	4.10E-01	4.20E-01	4.20E-01	4.20E-01	4.20E-01	4.20E-01	4.20E-01	4.20E-01	4.20E-01	4.30E-01	4.30E-01	4.30E-01	4.30E-01	4.30E-01	4.30E-01	4.30E-01	4.30E-01	4.30E-01	4 30E-01	4.30E-01	4.30E-01	4.30€-01	4.40E-01	4.40E-01
6679258 NT	AF203478.1		Z99124.1	R41726.1		1	AA906344.1	4.10E-01 AL161536.2	4.10E-01 AL161536.2	7705283 NT	AI905949.1	AI905481.1	R13467.1	AA534093.1	BE073574.1	4.20E-01 AW835527.1	AI280338.1	AE003947.1	AA761653.1	Q39102	Y15839.1	AL161502.2	AF155218.1	AF155218.1	AB028026.1	J00306.1	AE000698.1	AW999477.1	AW935269.1	AW866550.1	AI281909.1	AF155218.1	AF155218.1	BE141396.1	AL115324.1
NT	Z	NT	4	EST_HUMAN	EST_HUMAN	Z,	EST_HUMAN		Z	3 NT	EST HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT T	EST_HUMAN	SWISSPROT	NT	N	NT	TN	NT T	T		EST HUMAN	EST HUMAN		EST_HUMAN	NT	ZT	EST_HUMAN	
Mus musculus platelet derived growth factor receptor, beta polypeptide (Pdgfrb), mRNA	Drosophila melanogaster Dalmauan (unit) mixixx, compress was	Laqueus rubeilus mitochondron, complete geriorite	Bacillus subtilis complete genome (section 21 of 21): Ifoth 3999201 to 4214014		om33d02.s1 Soares NFL   GBC: S1 Homo Sapiens CUNA Gore IMAGE: 31814 3		oj94b08.51 Soares_NFL_1_GBC_S1 Homo sapielis culvis dolle immot. 1909993 3	chromosome	Arabidopsis thaliana DNA chromosome 4, conug ragment No. 30	Homo saplens anaphase-promoting complex subunit / (APC/), mknA	PN-BT103-270499-684 BT103 Homo sapiens CUNA	RC-BT091-210199-142 BT091 Homo saplens cDNA	y777e01.r1 Soares Infant brain 1NIB Homo sapiens CUNA Gone IMAGE. 20210 3	nj69h01.s1 NCL_CGAP_Pr10 Homo sapiens cDNA clone IMAGE:997777 similar to gb:M33600 HLA CLASS II HISTOCOMPATIBILITY ANTIGEN, DR-1 BETA CHAIN (HUMAN);	RC5-BT0559-020300-013-E06 BT0559 Homo sapiens CUNA		q194b01.x1 Soares NhHMPu S1 Homo sapiens CUNA Cione IMAGE: 10/89403	Xylella fastidiosa, section 93 of 229 of the complete genome	nz24a09.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1286696 3	CELL DIVISION PROTEIN FTSH HOMOLOG PRECURSOR		Arabidopsis thaliana DNA chromosome 4, contig fragment No. 14	Callithrix Jacchus MW/LW opsin gene, upstream flanking region	Callithrix jacchus MW/LW opsin gene, upstream flanking region		Human somatostatin I gene and flanks				QV4-SN0024-200400-183-b01 SN0024 Homo sapiens cDNA	qt82d03.x1 NCI_CGAP_Co14 Homo sapiens cunA done imAGE. I so i rou o similar io contains Alu repetitive element;	Callithrix Jacchus MW/LW opsin gene, upstream tranking region	Callithrix Jacchus MW/LW opsin gene, upstream nanking region	MR0-HT0078-131299-007-905 H10078 H0mo sapiens curv	

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3.2 4.00E-01 AJ277511.1 7.3 4.00E-01 C31849 0.5 3.90E-01 AW352188.1 0.8 3.90E-01 AB033019.1 1.3 3.90E-01 X82032.1 2.2 3.90E-01 X82032.1 2.2 3.90E-01 X82032.1 2.2 3.90E-01 AJ277435.1 0.7 3.80E-01 AJ277435.1 1.2 3.80E-01 AE003870.1 1.2 3.80E-01 AF214117.1 1.6 3.80E-01 AF214117.1 1.6 3.80E-01 AJ2719.1 0.9 3.80E-01 AJ251057.1 2.0 3.80E-01 AL161518.2 0.8 3.80E-01 AL161518.2 0.9 3.80E-01 AF162061.1 3.6 3.70E-01 AF056336.1 1.5 3.70E-01 AW878037.1 1.5 3.70E-01 AW878037.1 3.3 3.70E-01 AW878037.1	EST_HUMAN EST_HUMAN NT	3.70E-01 3.70E-01 3.70E-01	14506	9416	4225 4292
3.2 4.00E-01 AJ277511.1 NT Ovis aries partial JD2 gene for I cell recep 0.5 3.90E-01 AV352188.1 EST_HUMAN CMA-HT0136-15099-014-f09 HT0136 h.0.0 CMA-HT0136-150999-014-f09 HT0136 h.0.0 CMA-HT0136-15099-014-f09 HT0136 h.0.0 CMA-HT0136-15099-014-f09 HT0136 h.0.0 CMA-HT0136-15099-014-f09 HT0136 h.0.0 CMA-HT0136-1509-014-f09 HT0136-1509-014-f09 HT0	EST_HUMAN	3.70E-01 3.70E-01	14430	$\Box$	4225
3.2 4.00E-01 AL277511.1 NT Ova rises partial JD2 gene for T cell recept	EST_HUMAN EST_HUMAN	3.70E-01 3.70E-01	14430		4225
3.2 4.00E-01 AL277511.1 NT Ovis arise partial JD2 gene for I cell recept   7.3 4.00E-01 Q31849 SWISSPROT NADH-PLASTOQUINONE OXIDOREDUC   6.5 3.90E-01 AV352188.1 EST_HUMAN CAAH-PLASTOQUINONE OXIDOREDUC   7.3 3.90E-01 AV352032.1 NT CAAHT0136-150999-014-f09 HT0136 Holo   7.2 3.90E-01 X82032.1 NT Homo saplens mRNA for KIAA1193 protein   7.2 3.90E-01 X82032.1 NT Homo saplens mRNA for KIAA1193 protein   7.3 3.90E-01 AZ255996.1 NT Homo saplens B-myb gene   7.4 3.90E-01 AZ277435.1 NT Soares MRNA for KIAA1193 protein   7.5 3.80E-01 AZ277435.1 NT Olive latent ringspot virus genomic RNA for   7.6 3.80E-01 AZ277435.1 NT Olive latent ringspot virus genomic RNA for   7.8 3.80E-01 AZ251057.1 NT Homo saplens protein kinase PKNbeta (ax   7.8 3.80E-01 AZ251057.1 NT Homo saplens protein kinase PKNbeta (ax   7.8 3.80E-01 AZ251057.1 NT Homo saplens DNA, DLEC1 to ORCTL4 graduate   7.8 3.80E-01 AZ251057.1 NT Homo saplens Complete cds)   7.8 3.80E-01 AZ251057.1 NT Homo saplens DNA, DLEC1 to ORCTL4 graduate   7.8 3.80E-01 AZ251057.1 NT Homan immunodeficiency virus type 1 com   7.8 3.80E-01 AZ251057.1 NT Homan immunodeficiency virus type 1 com   7.8 3.80E-01 AZ251057.1 NT Homan immunodeficiency virus type 1 com   7.8 3.80E-01 AZ251057.1 NT Homan immunodeficiency virus type 1 com   7.8 3.80E-01 AZ251057.1 NT Homan immunodeficiency virus type 1 com   7.8 3.80E-01 AZ251057.1 NT Homan immunodeficiency virus type 1 com   7.8 3.80E-01 AZ251057.1 NT Homan immunodeficiency virus type 1 com   7.8 3.80E-01 AZ251057.1 NT Homan immunodeficiency virus type 1 com   7.8 3.80E-01 AZ251057.1 NT Homan immunodeficiency virus type 1 com   7.8 3.80E-01 AZ251057.1 NT Homan immunodeficiency virus type 1 com   7.8 3.80E-01 AZ251057.1 NT Homan immunodeficiency virus type 1 com   7.8 3.80E-01 AZ251057.1 NT Homan immunodeficiency virus type 1 com   7.8 3.80E-01 AZ251057.1 NT Homan immunodeficiency virus type 1 com   7.8 3.80E-01 AZ251057.1 NT Homan immunodeficiency virus type 1 com   7.8 3.80E-01 AZ251057.1 NT Homan immunodeficiency virus type 1 com   7.8 3.80E-0	EST_HUMAN	3.70E-01		7	
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3.2 4.00E-01 AJ277511.1 NT Ovis aries partial JD2 gene for T cell recep 7.3 4.00E-01 (31849) SWISSPROT NADH-PLASTOQUINONE OXIDOREDUC 0.5 3.90E-01 AF206618.1 NT Gorilla carboxyl-ester lipase (CEL) g 1.3 3.90E-01 AB033019.1 NT Homo sapiens mRNA for KIAA1193 proteil 2.2 3.90E-01 X82032.1 NT Homo sapiens mRNA for KIAA1193 proteil 2.2 3.90E-01 X82032.1 NT Homo sapiens b-myb gene 2.3 3.90E-01 AJ275896.1 NT Sinorhizobium mellioti egi, syr82, cya3 ger 2.5 3.80E-01 AJ277435.1 NT Sinorhizobium mellioti egi, syr82, cya3 ger 2.5 3.80E-01 AJ277435.1 NT Olive latent ringspot virus genomic RNA fo 0.7 3.80E-01 AJ277435.1 NT Olive latent ringspot virus genomic RNA fo 1.2 3.80E-01 AE203870.1 NT Sylella fastidiosa, section 16 of 229 of the ringspot virus genomic RNA fo 1.2 3.80E-01 AE203870.1 NT Sylella fastidiosa, section 16 of 229 of the ringspot virus genomic RNA fo 1.2 3.80E-01 AE203870.1 NT Sylella fastidiosa, section 16 of 229 of the ringspot virus genomic RNA fo 1.2 3.80E-01 AE214117.1 NT Arabidopsis thaliana putative c-myb-like tra 1.6 3.80E-01 AJ251057.1 NT Human immunodeficiency virus type 1 corr 2.0 3.80E-01 AJ251057.1 NT Human immunodeficiency virus genomes 4. 0.9 3.80E-01 AL161518.2 NT HUMAN Wr38b12.x1 Soares NFL_T_GBC_S1 Hom 0.9 3.80E-01 AF162061.1 NT Human immunodeficiency virus genome 4. 1.2 3.70E-01 AF162061.1 NT Human immunodeficiency virus genome 4. 1.2 3.70E-01 AF162061.1 NT Human immunodeficiency virus type 1 corr 1.2 3.70E-01 AF162061.1 NT Human immunodeficiency virus genome 4. 1.2 3.70E-01 AF162061.1 NT Human immunodeficiency virus genome 4. 1.2 3.70E-01 AF162061.1 NT Human immunodeficiency virus type 1 corr 1.2 3.70E-01 AF162061.1 NT Human immunodeficiency virus type 1 corr 1.2 3.70E-01 AF162061.1 NT Human immunodeficiency virus type 1 corr 1.2 3.70E-01 AF162061.1 NT Human immunodeficiency virus type 1 corr 1.2 3.70E-01 AF162061.1 NT Human immunodeficiency virus type 1 corr 1.2 3.70E-01 AF162061.1 NT Human immunodeficiency virus type 1 corr 1.2 3.70E-01 AF162061.1 NT Human immunodeficiency virus type 1 cor	21	3 705-01	13665	8556	3414
3.2 4.00E-01 AJ277511.1 NT Ovis aries partial JD2 gene for T cell recep 7.3 4.00E-01 Q31849 SWISSPROT NADH-PLASTOQUINONE OXIDOREDUC 0.5 3.90E-01 AW352188.1 EST_HUMAN CM4-HT0136-150999-014-f09 HT0136 Hot 0.8 3.90E-01 AF206618.1 NT Gorilla gorilla carboxyl-ester lipase (CEL) g 1.3 3.90E-01 AB033019.1 NT Homo sapiens mRNA for KIAA1193 proteil 2.2 3.90E-01 X82032.1 NT Homo sapiens B-myb gene 2.2 3.90E-01 X82032.1 NT Homo sapiens B-myb gene 3.6 3.90E-01 AJ277435.1 NT Sinorhizobium meilioti egi, syrB2, cya3 ger 2.5 3.80E-01 AJ277435.1 NT Olive latent ringspot virus genomic RNA fo 0.7 3.80E-01 AZ277435.1 NT Olive latent ringspot virus genomic RNA fo 1.2 3.80E-01 AE003870.1 NT Sylella fastidiosa, section 16 of 229 of the a 1.2 3.80E-01 AE003870.1 NT Homo sapiens DNA, DLEC1 to ORCTL4 genes, complete cds) 1.2 3.80E-01 AE003870.1 NT ORCTL4 genes, complete cds) 1.2 3.80E-01 AF214117.1 NT Arabidopsis thaliana putative c-myb-like tra 0.9 3.80E-01 AF23383.1 NT Human immunodeficiency virus type 1 con 0.9 3.80E-01 AL161518.2 NT Human immunodeficiency virus type 1 con 0.9 3.80E-01 AL161518.2 NT Human immunodeficiency virus type 1 con 0.9 3.80E-01 AL161518.2 NT Arabidopsis thaliana DNA chromosome 4, 0.9 3.80E-01 AL161518.2 NT Arabidopsis thaliana DNA chromosome 4, 0.9 3.80E-01 AF262061.1 NT MNS musculus general transcription factor 1.2 3.70E-01 AF162061.1 NT Capniomyces stellatus beta-tubulin (bitub) in the contraction of the contrac	NT	3.70E-01	12735	7530	2431
3.2 4.00E-01 AJ277511.1 NT Ovis aries partial JD2 gene for 1 cell recep 7.3 4.00E-01 Q31849 SWISSPROT NADH-PLASTOQUINONE OXIDOREDUC 0.5 3.90E-01 AF206618.1 NT Gorlia gorlia carboxyl-ester lipase (CEL) g 1.3 3.90E-01 AF206618.1 NT Gorlia gorlia carboxyl-ester lipase (CEL) g 1.3 3.90E-01 X82032.1 NT Homo sapiens mRNA for KJAA1133 proteil 2.2 3.90E-01 X82032.1 NT H.sapiens B-myb gene 2.2 3.90E-01 X82032.1 NT H.sapiens B-myb gene 3.6 3.90E-01 AJ275996.1 NT H.sapiens B-myb gene 2.5 3.80E-01 AJ277435.1 NT Sinorhizoblum melilloil egi, syr82, cya3 ger 3.80E-01 AJ277435.1 NT Olive latent ringspot virus genomic RNA for Allor and the symbol of the s	N-T	3.70€-01	12449	7241	2131
3.2 4.00E-01 AJ277511.1 NT Ovis aries partial JDZ gene for T cell recep 7.3 4.00E-01 Q31849 SWISSPROT INADH-PLASTOQUINONE OXIDOREDUC 0.5 3.90E-01 AF206618.1 NT CMA-HT0136-150999-014-f09 HT0136 Hoi 0.8 3.90E-01 AF206618.1 NT Gorilla gorilla carboxyl-ester lipase (CEL) g 1.3 3.90E-01 AB033019.1 NT Homo sapiens mRNA for KIAA1193 proteil 2.2 3.90E-01 X82032.1 NT Homo sapiens B-myb gene 2.2 3.90E-01 X82032.1 NT Homo sapiens B-myb gene 3.6 3.90E-01 AJ225896.1 NT Homo sapiens brotein kinase PKNbeta (pk 0.7 3.80E-01 AJ277435.1 NT Olive latent ringspot virus genomic RNA for 1.2 3.80E-01 AE003870.1 NT Olive latent ringspot virus genomic RNA for 1.2 3.80E-01 AE003870.1 NT Wylella fastidiosa, section 16 of 229 of the ringspot virus genomic RNA for 1.2 3.80E-01 AE214117.1 NT Arabidopsis thaliana putative c-myb-like tra 1.6 3.80E-01 AJ251057.1 NT Human immunodeficiency virus type 1 corr 2.0 3.80E-01 AL603383.1 NT Human immunodeficiency virus type 1 corr 2.0 3.80E-01 AL603383.1 NT Human immunodeficiency virus type 1 corr 2.0 3.80E-01 AL603383.1 NT Human immunodeficiency virus type 1 corr 2.0 3.80E-01 AL603383.1 NT Human immunodeficiency virus type 1 corr 2.0 3.80E-01 AL603383.1 NT Human immunodeficiency virus type 1 corr 2.0 3.80E-01 AL603383.1 NT Human immunodeficiency virus type 1 corr 2.0 3.80E-01 AL603383.1 NT Human immunodeficiency virus type 1 corr 2.0 3.80E-01 AL60518.2 NT Human immunodeficiency virus type 1 corr 2.0 3.80E-01 AL60518.2 NT Human immunodeficiency virus type 1 corr 3.80E-01 AL60518.2 NT Human immunodeficiency virus type 1 corr 3.80E-01 AL60518.2 NT Human immunodeficiency virus type 1 corr 3.80E-01 AL60518.2 NT Human immunodeficiency virus type 1 corr 3.80E-01 AL60518.2 NT Human immunodeficiency virus type 1 corr 3.80E-01 AL60518.2 NT Human immunodeficiency virus type 1 corr 3.80E-01 AL60518.2 NT Human immunodeficiency virus type 1 corr 3.80E-01 AL60518.2 NT Human immunodeficiency virus type 1 corr 3.80E-01 AL60518.2 NT Human immunodeficiency virus type 1 corr 3.80E-01 AL60518.2 NT Human immunodeficiency v	NT		14077	8977	3841
3.2 4.00E-01 AJ277511.1 NT Ovis aries partial JD2 gene for 1 cell recep 7.3 4.00E-01 Q31849 SVVISSPROT NADH-PLASTOQUINONE OXIDOREDUC 0.5 3.90E-01 AW352188.1 EST_HUMAN CMA-HT0136-150999-014-f09 HT0136 Hoi 0.8 3.90E-01 AF206618.1 NT Gorilla gorilla carboxyl-ester lipase (CEL) g 1.3 3.90E-01 AB033019.1 NT Homo sapiens mRNA for KIAA1193 proteil 2.2 3.90E-01 X82032.1 NT Homo sapiens B-myb gene 2.2 3.90E-01 X82032.1 NT Homo sapiens protein kinase PKNbeta (pk 0.7 3.80E-01 AJ225896.1 NT Sinorhizobium melilioti egi, syr82, cya3 ger 2.5 3.80E-01 AJ277435.1 NT Olive latent ringspot virus genomic RNA fo 1.2 3.80E-01 AE003870.1 NT Sylella fastidiosa, section 16 of 229 of the 4 1.2 3.80E-01 AE003870.1 NT Wylella fastidiosa, section 16 of 229 of the 4 1.6 3.80E-01 AB026898.1 NT Arabidopsis thaliana putative c-myb-like tra 1.6 3.80E-01 AJ251057.1 NT Human immunodeficiency virus type 1 com 2.0 3.80E-01 AL161518.2 NT Pleuronectes americanus aminopeptidase 7.8 3.80E-01 AL161518.2 NT Pleuronectes americanus aminopeptidase 4. 3.80E-01 AL161518.2 EST_HUMAN wf38b12.x1 Soares_NFL_T_GBC_S1 Hom	EST_HUMAN	3.80E-01			3506
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3.2 4.00E-01 AJ277511.1 NT 7.3 4.00E-01 Q31849 SWISSPROT 0.5 3.90E-01 AV352188.1 EST_HUMAN 0.8 3.90E-01 AF206618.1 NT 1.3 3.90E-01 AB033019.1 NT 2.2 3.90E-01 X82032.1 NT 2.2 3.90E-01 X82032.1 NT 2.2 3.90E-01 X82032.1 NT 2.2 3.90E-01 AJ225896.1 NT 0.7 3.80E-01 AJ277435.1 NT 0.7 3.80E-01 AJ277435.1 NT	Z	3.80E-01		6946	1827
3.2 4.00E-01 AJ277511.1 NT 7.3 4.00E-01 Q31849 SWISSPROT 0.5 3.90E-01 AW352188.1 EST_HUMAN 0.8 3.90E-01 AF206618.1 NT 1.3 3.90E-01 AB033019.1 NT 2.2 3.90E-01 X82032.1 NT 2.2 3.90E-01 X82032.1 NT 2.2 3.90E-01 X82032.1 NT 2.2 3.90E-01 TM225896.1 NT 3.6 3.90E-01 AJ2278435.1 NT 0.7 3.80E-01 AJ277435.1 NT	NT	3.80E-01			848
3.2 4.00E-01 AJ277511.1 NT 7.3 4.00E-01 Q31849 SWISSPROT 0.5 3.90E-01 AW352188.1 EST_HUMAN 0.8 3.90E-01 AF206618.1 NT 1.3 3.90E-01 AB033019.1 NT 2.2 3.90E-01 X82032.1 NT 2.2 3.90E-01 X82032.1 NT 2.2 3.90E-01 X82032.1 NT 2.2 3.90E-01 X92032.1 NT 2.2 3.90E-01 X92032.1 NT 2.2 3.90E-01 X92032.1 NT 3.6 3.90E-01 X92032.1 NT	NT	3.80E-01	11109	5956	805
3.2 4.00E-01 AJ277511.1 NT 7.3 4.00E-01 Q31849 SWISSPROT 0.5 3.90E-01 AW352188.1 EST_HUMAN 0.8 3.90E-01 AF206618.1 NT 1.3 3.90E-01 AB033019.1 NT 2.2 3.90E-01 X82032.1 NT 2.2 3.90E-01 X82032.1 NT 3.6 3.90E-01 AJ225896.1 NT	NT			5350	154
3.2 4.00E-01 AJ277511.1 NT 7.3 4.00E-01 Q31849 SWISSPROT 0.5 3.90E-01 AW352188.1 EST_HUMAN 0.8 3.90E-01 AF206618.1 NT 1.3 3.90E-01 AB033019.1 NT 2.2 3.90E-01 X82032.1 NT 2.2 3.90E-01 X82032.1 NT	NT	3.90E-01	13308	8209	3058
3.2 4.00E-01 AJ277511.1 NT 7.3 4.00E-01 Q31849 SWISSPROT 0.5 3.90E-01 AW352188.1 EST_HUMAN 0.8 3.90E-01 AF206618.1 NT 1.3 3.90E-01 AB033019.1 NT 2.2 3.90E-01 X62032.1 NT	NT	3.90E-01	12960	7760	2673
3.2 4.00E-01 AJ277511.1 NT 7.3 4.00E-01 Q31849 SWISSPROT 0.5 3.90E-01 AW352188.1 EST_HUMAN 0.8 3.90E-01 AF206618.1 NT 1.3 3.90E-01 AB033019.1 NT	NT	3.90E-01	12959		2673
3.2 4.00E-01 AJ277511.1 NT 7.3 4.00E-01 Q31849 SWISSPROT 0.5 3.90E-01 AW352188.1 EST_HUMAN 0.8 3.90E-01 AF206618.1 NT	NT	3.90E-01	12899	7695	2605
3.2 4.00E-01 AJ277511.1 NT 7.3 4.00E-01 Q31849 SWISSPROT 0.5 3.90E-01 AW352188.1 EST_HUMAN	NT	3.90€-01	11651	6484	1356
7.3 4.00E-01 AJ277511.1 NT 7.3 4.00E-01 Q31849 SWISSPROT	88.1 EST_HUMAN	3.90E-01	10539	П	227
3.2   4.00E-01  AJ277511.1   NT	SWISSPROT	4.00E-01			4712
	NT	4.00E-01	13984		3755
3.2   4.00E-01  AJ277511.1   NT   Ovis aries partial JD2 gene for T cell recep	NT	4.00E-01	13983	╗	3755
1.6 4.00E-01 AF068903.1 NT	NT '	4.00E-01	13871	8776	3637
2.2   4.00E-01  AL163280.2   NT	NT	4.00E-01	13198		2939
2.2   4.00E-01  AL163280.2   NT	NT	4.00E-01	13197		2939
1.1 4.00E-01 6678490 NT	NT		10463		2774
1.2   4.00E-01   Z96933.1   NT	NT		12275	$\neg$	1960
12274 1.2 4,00E-01   Z96933.1   NT   Ascobolus Immersus masc2 gene	NT NT		12274	7931	1960

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9400	Т	Т	5846	9956	Г	П	Г	Т	$\neg \neg$	7947	6748	5862	Т	П	5396	10047	9786	9749	9318	9318	8566	8566	8020	7682		7536	7443	7330	7121	7025	6992	6992	6421	6421	
Γ	Т	11263	<u> </u>	15045	Γ	Γ	T	T		12859	11916	GREOT.		Г	10522	15119	14899	14844	14403	14402	13678	13677		12882		12743				12214	12178	12177	11587	11586	
ſ		1.5	0.7	3.8	Γ	T	Ī		) 0	0.7	=		T			Γ			0.9	0.9	1.9	1.9	8.9	0.8		0.6	0.9	1.0	=	2.2	2.2	2.2	0.9	0.9	
-	3.40E-01	3.40E-01	3.40E-01	3.500-01	0.000	3 500 01	3.500-01	3 605	3.50F-01	3.50E-01	3.50E-01	0.000	3.500.01	3.505-01	3.50≿-01	3.50101	3.60	3.601	3.505	3.60	3.60≿-01	3.60E-01	3.60E-01	3.60E-01		3.60E-01	3.60E-01	3.60≿-01	3.60E-01	3.60E-01	3.60≿-01	3.60E-01	3.60E-01	3.60E-01	
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	Y00554.1	Y09798.2	AJ242956.1	M 10049. 1	140240 1	N81203 1	148585 1	AE071253 1	U05897.1	AA223252.1	U35776.1		7706136	AL 101301.2 7706136	00/0333	AVV 339393.1	3.60E-01 AM/220203 1	3.60E-01 AJUUBOUS.	3.60E-01 BE231128.1	3.60E-01 BEZ51129.1	X/6/36.1	X76758.1	AF199485.1	P24206		AVV812033.1	X/6/25.1	ABUUZSZIII	AP000321	AF216207.1	AW590184.1	AW590104.1	180255.1	T80255.1	
	N,	N	NT		- 1.	- 11	EST HUMAN	Ni	Ą	EST_HUMAN	NT		36 NT	S NT	_		FST HIMAN	27	1000		DOT LIMAN	N 2	N N	OWIGOTACI		EST TOWARD	TOT LIMAN	14	27	NT Z	EG. LICINE	EST LINAN	DANIH TON	EST HIMAN	NVINITA TIL
	Azotobacter vinelandii nira gene idi mira pidelii (positivo regione)	PSeudomonas indicescens con to selfice protein (positive regulatory element)	HPV45 E1 genes isolated from IC4 cervical carcinoma cell line  HPV45 E1 genes isolated from IC4 cervical carcinoma cell line	Homo sablens partial N-myc (exon 3), HPV45 L2, HPV45 L1, HPV45 E6, HPV45 E7 and		788IE1 fetal brain cDNA Homo sapiens cDNA clone 788IE1-K similar to K07879, 440490	RC5-HT0218-181099-011-902 HT0218 Homo saplens cDNA	omeobox protein (hoxb5b) s	complete cds	IMAGE:650872 3'	complete cds zroba09.s1 Stratagene NT2 neuronal precursor 937230 Homo saplens cDNA clone	Rattus norvegicus ADP-ribosylation factor-directed GTPase activating protein minitor,	Homo sapiens GAP-like protein (LOC51306), mRNA			Mus musculus mannose receptor, C type 2 (Mrc2), mRNA	ha02a04.x1 NCI CGAP_Lu24 Homo sapiens cDNA done IMAGE:2872566 3	Bacteria from anoxic bulk soil 16S rRNA gene (strain XB45)	Brassica natus mRNA for MAP4K alpha2 protein	601107183F1 NIH MGC 16 Homo saplens cDNA clone IMAGE:3343484 5'	601107183E1 NIH MGC 16 Homo sapiens cDNA clone IMAGE:3343484 5	H sanians serotonin transporter gene, exons 9 and 10	H sanians serotonin transporter gene, exons 9 and 10	Drosophila melanogaster sugar transporter 3 (sut3) mRNA, complete cds	METHYLTRANSFERASE) (PIMT) (PROTEIN L-ISOASPARTYL METHYLTRANSFERASE)	BROTEIN-I -ISOASPARTATE O-METHYLTRANSFERASE (PROTEIN-BETA-ASPARTATE	BC5-ST0171-181099-011-q07 ST0171 Homo saplens cDNA		Human mRNA for KIAA0323 gene, partial cds	Rattus norvegicus repeat element associated with the Rasgirf1 gene	Mile musculus ribosomal protein S19 (Rps19) gene, complete cds	hg33f02 x1 NCI CGAP GC6 Homo sapiens cDNA clone IMAGE:2947419 3	ho33f02x1 NCI CGAP GC6 Homo sapiens cDNA clone IMAGE:2947419 3	wd03e05 r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:24443 5	Langans rt Scares infant brain 1NIB Homo saplens cDNA clone IMAGE:24443 5

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1321	6450	1615	<u>ာ</u> စာ	3 40E-01	AF057063 1	2	Erwinia carotovora subsp. carotovora aspartate aminotransferase (aat) gene, partial cds; HexA (hexA), NADH dehydrogenase chain A (nuoA), and NADH dehydrogenase chain B (nuoB) genes, complete cds; and NADH dehydrogenase chain C (nuoC) gene, partial cds
2352	7454	12661	1.0	3.40E-01	D90909.1	NT T	Synechocystls sp. PCC6803 complete genome, 11/27, 1311235-1430418
2642	7731	12932	1.5	3.40E-01	AL161516.2	N.T	Arabidopsis thallana DNA chromosome 4, contig fragment No. 28
2679	7766	12967	11	3.40E-01	AJ251835.1	NT	
3124	8273	13378	5.4	3.40E-01	U83905.1	NT	Canis familiaris rod photoreceptor cGMP-gated channel alpha-subunit (CNGC1) mRNA, complete cds
3488	8629	13741	3.5	•	AF106835.1	NT	Methylovorus sp. strain SS1 putative GrpE (grpE), DnaK (dnaK), and putative DnaJ (dnaJ) genes, complete cds
3965	9097		1.2		AA584196.1	EST HUMAN	no11b10.s1 NCI CGAP Phe1 Homo saplens cDNA clone IMAGE:1100347 3'
4394	9516	14606	0.8	3.40E-01	3.40E-01 AF166341.1	· · · · · · · · · · · · · · · · · · ·	Homo sapiens integrin alpha 6 (ITGA6) gene, exons 12 through 23
4544	9663	14753	1.8	3.40E-01	BE069912.1	EST_HUMAN	MR4-BT0403-230200-202-c01 BT0403 Homo saplens cDNA
4645	7766	12967	2.2	3.40E-01	AJ251835.1	TN	Mus musculus Kcnq1, Ltrpc5, Mash2, Tapa-1, Tssc4 and Tssc6 genes, alternative transcripts
4828	9936	15026	0.9	3.40E-01	BE463761.1	EST_HUMAN	hy17d09x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:3197585 3' similar to contains L1.13 L1 repetitive element;
4870	9977		a D	3 40F-01	1 5.250761	LAWIN LSE	qj95c05.x1 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1867208 3' similar to
	10073	15146	1.2		X16544.1		Sea urchin hsp70 gene il for heat shock protein 70
14	5222	10323	1.3	3.30E-01 X07990.1	X07990.1	NT	Rhizobium leguminosarum sym piasmid pRL5JI nodX gene
<b>1</b>	5222	10323	2.7	3.30E-01	X07990.1	NT	
440	5606	10740	1.2	3.30E-01	AL161545.2	NT	
617	5776	10898	1.4	3.30E-01	7662485	NT	
1182	6315	11472	1.0	3.30E-01	Q12446	SWISSPROT	PROLINE-RICH PROTEIN LAS17
1588	6714	11884	1.1		53685	NT	Mus musculus disintegrin 5 (Dtgn5), mRNA
1704	6827		==	3.30E-01	AA332734.1	EST_HUMAN	EST36722 Embryo, 8 week i Homo sapiens cDNA 5' end
2355	7457		1.7	3.30E-01	4507834 NT	N.	Homo saplens uridine monophosphate synthetase (orotate phosphoribosyl transferase and orotidine-5'-decarboxylase) (UMPS) mRNA
2752	7836	13037	1.1	3.30E-01	AJ132478.1	NT	Chlamydomonas reinhardtii STF1 gene, partial
2760	7844	13046	3.1	3.30E-01	8923039	NT	Homo sapiens hypothetical protein FLJ20036 (FLJ20036), mRNA
2919	8070	13180	2.0	3.30E-01	AJ251805.1	T	Bacterlophage phl-YeO3-12 complete genome
2982	8134		1.1	3.30E-01	O02743	SWISSPROT	INTERLEUKIN-12 ALPHA CHAIN PRECURSOR (IL-12A) (CYTOTOXIC LYMPHOCYTE MATURATION FACTOR 35 KD SUBUNIT) (CLMF P35)
3016	8168	13269	1.0		AJ007932.2	TN	Streptomyces argillaceus mithramycin biosynthetic genes
3450	8592	13705	1.1			NT	
3738	8875	13965	2.2		O84645	SWISSPROT	EXODEOXYRIBONUCLEASE V BETA CHAIN
3884	9020	14114	1.6			NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 10
3920	9054	14141	1.9	3.30E-01	AF200446.1	NT	

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3	1491	1204	254	68	5073	3832	3136	2827	2665	2665	2636	4907	4397	4375	4207	4205	3868	3556	2677	2494	1800	1744	1744	1737	1368	1261	1146	701	449	5133	4589	4271
6630		6336	5442	7857	$\Box$	$\neg$	7		T	П		10014	9519	9497	Т	2	$\Gamma$		7		Ŧ	6867	6867	6860	6496	6390	6281	5856	5615	10228	9703	9396
11700	,	11492	10569	10398	15249	14068			12952	12951	12929		14609	14584	1,00	14509			12965		12106	12046	12045	12038	11662	11551	11434			15303		
0.9	2.3	0.6	3.8		1.0	1.2	2.8	1.0	1.3	1.3	1.4	1.2	1.3	0.8		<u>.</u>	1.0		0.6	1.1	1.2				2.3	1.0	6.5	0.7	0.7	1.0	1.5	2.7
3.00E-01	3.00E-01	3.00E-01	3.00E-01	3.00E-01	3.10E-01	3.10E-01	3.10E-01	3.10E-01	3.10E-01	3.10E-01	3.10E-01	3.20E-01	3.20E-01	3.20E-01		3.20E-01	3.20E-01	3.20E-01	3.20€-01	3.20E-01	3.20E-01	3.20E-01		3.20E-01	3.20E-01	3.20E-01	3.20E-01	3.20E-01		3.30E-01	3.30E-01	3.30E-01
AI803369.1	3.00E-01 AJ006755.1	3.00E-01 AW300400.1	AJ271735.1	6755083 NT	AA576308.1	AJ251586.1	AB029069.1	AW629036.1	7661971 NT	7661971	R18051.1	M32352.1	Q10268	AF111167.2		3.20E-01 M18818.1	AL161546.2	D10872.1	AF060568.1	7710079 NT	AL111655.1	AW957194.1	AW957194.1	Z36041.1	Q48624	Z50202.1	AF047013.1	AL161561.2	AF018261.1	W30992.1	AI539114.1	D31662.1
EST_HUMAN	3	EST_HUMAN		3 NT	EST_HUMAN		ZT	EST_HUMAN	1	1 NT	EST_HUMAN	S	SWISSPROT	N		Z	NT	Z-T	N,	TN	NT	EST_HUMAN	EST_HUMAN	NT	SWISSPROT	3	NT	NT	ZT	EST HUMAN	EST_HUMAN	NT
tc42c05.x1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:2067272 3'	Balaenoptera physalus gene encouing amai nautureuc propure	X563[08.X] NCI CGAP Kig11 nomo sapiens con a cina cina con a cina cina cina cina cina cina cina c	Homo sapiens Ad pseudoautosoniai region, segiment inz		nm61h05.s1 NCI_CGAP_Br3 Homo sapiens culva cione live Sec. 10/2/01/0	Daucus carola mknya for transcription factor car (car golle)	Mus musculus gene for Ser/ I nr kinase KNIAMIKE, exori o	hi46h08.x1 Soares_NFL_T_GBC_ST Homo sapiens cuiva cione image29133913	Homo sapiens KIAA0174 gene product (KIAA0174), mknA	Homo sapiens KIAA0174 gene product (KIAA0174), mknA	similar to gb:M64241 QM PROTEIN (HUMAN);	Mouse renin (Ren-1-d) gene, complete the	HYPOTHETICAL 81.7 KU PROJEIN CIRCUM CONCOMUCIONE I TRECONSON	unknown gene	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and	beta globin polypeptides, complete cds	Parabidopsis maliana DNA circumserine 4, coring inspirion, 190, 190, 190, 190, 190, 190, 190, 190	Humam h NAT aliele 3-2 gene for arriamine N-acetylicansistrase	Homo sapiens promyelocytic leukemia zinc linger protein (r Lzr) gene, winprate was	Mus musculus Pbyknotted T nomeobox (PKnox I), Illinium	Botrytis cinerea strain T4 cUNA library under conductors of nitrogen deprivation	EST369264 MAGE resequences, MAGU Homo sapiens CUNA	EST369264 MAGE resequences, MAGD Homo sapiens CUNA	S.cerevisiae chromosome il reading frame UKF YBK1720	PROTEIN)	P.VUIGARS ACC-1 GENERAL DECTORE DECTON SYMPORTY II ACTORE TRANSPORT	Fusarium poae virus 1 RNA2 putative RNA dependent RNA polymerase gene, complete cds	Arabidopsis thaliana UNA chromosome 4, comp inspirient ive.	Rattus norvegicus EH domain binding protein Epsili finnyo, winpiew wo	TABSE03.11 Soares_senescent_introdusts_number nounce september of the IMAGE:310349 5	b:X57522 ANTIGEN PEPTIDE TRANSPORTER 1 (HUMAN):	

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2630	2500	2423	2423	2243	2134	2084	1966	1696	1269	1256	1256	1197	1067	556	4903	4729	4388	4388	4384	3994		3801	3213	3213	3147	2201	1978	<u>1</u>	1038	4412	4 2	3789	3709	3175	2089
7720				7349	7244	7196	7082	6820	П	П	7	$\neg$	6205	5718		9841	9510	9510	9506	9716	0000	8958	8361	8361	8296	7310	7093	6238	6178	9532	9230	8926	8847	8324	7200
12920		12730	12729		12451	12401	12282	12002	11557	11546	11545	11484	11360			14933	14597	14596	14591			14054	13472	13471	13405	12521	12294	11390	11331	14621		14020	13937		12405
1.4	0.9	1.1	1.1	0.9	0.8	0.5	0.6	0.6	1.0	1.1	1.1	1.1	0.8	0.6	0.9	0.9	0.8	0.8	1.0	0.0	2	<u>.</u> မ	2.3	2.3	1.0	1.0	0.6	0.9	0.5	1.9	1.7	1.3	<u>:</u>	1.0	0.9
2.80E-01	2.80E-01	2.80E-01	2.80E-01	2.80E-01	2.80E-01	2.80E-01	2.80E-01	2.80E-01	2.80E-01	2.80E-01	2.80E-01	2.80E-01	2.80E-01	2.80E-01	2.90E-01	2.90E-01	2.90E-01	2.90€-01	2.90€-01	2.000	3 QOE_01	2.90E-01	2.90E-01	2.90E-01	2.90E-01	2.90€-01	2.90E-01	2.90E-01	2.90E-01	3.00E-01	3.00E-01	3.00E-01	3.00E-01	3.00E-01	3.00E-01
1 AB020975.1			<u></u>			AW511195.1				BE313442.1	BE313442.1		AF168050.1	L	AF119676.1			AF134119.1	AA284468.1		AW002902 1	2.90E-01   AI610836.1	AW754239.1		1	_	AE000736.1	BE066156.1	AA090216.1	AJ006755.1	L42123.1	AW817785.1	AF229122.1	AB030481.1	AF237778.1
2	N	NT	N.T	EST_HUMAN		EST_HUMAN	EST_HUMAN	EST_HUMAN	NT T	EST_HUMAN	EST_HUMAN	ZT	N <sub>1</sub>	NT	27	Z	ZT	ZT	EST_HUMAN		EST HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	N.T	NT.	NT	EST_HUMAN		NT	NT NT	EST_HUMAN	NT T	NT	N
Arabiopsis trailara lineas to lipoyuanatagas, window and	Arabidopsis maliana DNA Circultosume +, Circy instruction in the line matter states and in the line matter states and in the line in the l	Escherichia coli K-12 MG1655 section 304 of 400 of the complete generical	Escherichia coli K-12 MG1000 Secuoti 304 of 400 of the complete genome	CM1-C1012/-160899-005-001 C1012/ Hollio septens control		ng44003.XT Spares NFL   GBC 31 notito saprens construction ministration acceptance	DKFZDS662321 F1 See (synonym: mule) Tromo sapiens cons cons cons cons Epocons cons		Human mRNA for senne/threonine protein kinase, complete cus	601148733F1 NIH_MGC_19 Homo sapiens curva done invade. 3 103000 3	601148733F1 NIH MGC_19 Homo sapiens CUNA Gone IWAGE:3163690 5	Homo sapiens delta-6 tatty acid desaturase (CT boxr) Iliniva, Cumplete Cas	Guira guira oocyte maturation ractor wos (c-mos) gene, partier cos		Mus musculus small G i r-blinding protein (Nab25) (Nab25) gene, complete cde		Mus musculus SKD1 (Skd1) gene, complete cas	Mus musculus SKD1 (Skd1) gene, complete cas	contains Alu repetitive element;		wr02f10.x1 NCI CGAP GC6 Homo sapiens cDNA clone IMAGE:2480395 3	gb:D15050 NIL-2-A ZINC FINGER PROTEIN (HUMAN);contains element L1 repetitive element;	PMT-C10326-17129-001-12 C10320 hone contact Supplies CONTACT STATE OF STATE	PM1-C10326-171299-001-112 C10326 Politic Septents CDNIA	Xenopus laevis transcription factor ext mixiwa, cumpiere cus	Chrysodidymus synuroideus mitochondrion, compliere genome	Aquifex section 68 of 109 of the complete genome		chp0182.seq.F Human fetal heart, Lambda ZAP Express Homo sapietis CUNA	Balaenoptera physalus gene encoding atrial natriureuc pepude	Mus musculus fibrobiast growth factor receptor 3 (FGFR3) gene, indon 9	PM1-ST0262-261199-001-g01 ST0262 Homo sapiens CUNA	Homo sapiens acetylcholinesterase collegerative will subutilit (COLA) serie, collegeratively spliced	Connebacterium sp. ALY-1 alyr Gene for polyguiuforiate lyase, with processing and	

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	Homo sanians DiGeorge syndrome critical region, telomeric end	IENNOCITY I NCI CGAP Kid11 Homo sapiens cDNA cione IMAGE:2462828 3'	CONTAINS GIGHTON TO THE TRANSPORT OF THE	ta43c11.x2 NCI_CGAP_Lu25 Homo sapiens cunA done IMAGE.2000000 0 5million 10	Feline Immunodeficiency virus env gene, isolate it i Cooper (woo), por an interpretation	Rattus norvegicus vesicular monoamine transporter type 2, promoter region and exon i	CORE SHELL PROTEIN P30; NUCLEOPROTEIN P10]	GAG BOI YPROTEIN ICONTAINS: INNER COAT PROTEIN P12; CORE PROTEIN P15;	zd22h10.r1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:341443 5'	G.lambila SR2 gene	Ipomoea purpurea transposable element i ip 100 gene ioi transposassi, compressione	similar to contains Alu repetitive element;	Partie 1 Service 16th father Nichales on Homo saniens cDNA clone IMAGE:788827 3'		mp2=manganese peroxidase isozyme z (near-snock eleniena, inami responso common, indiana responso common, indiana responso common, indiana responso common de la common del common de la common del common del common de la common del common de la common de	[Phanerochaete chrysosporium, Genomic, 3297 nt]	mnp2=manganese peroxidase isozyme 2 (heat-shock elements, metal response elements)	contains Alu repetitive element:contains element LTR5 repetitive element:	Milliscons gozes NhHMPu S1 Homo sapiens cDNA done IMAGE:1876628 3' similar to	Boying adeliovings 3 collipies generic proposition constant heavy chain, allele 19h-1	TUTTATI IIINA IO PARISAIPUT I CONTROL	TUITAL TINNA TO VALUE TO THE PROPERTY AREAS COMplete COS	Uriosophilia inerativgasist one percentage AREB6, complete cds	Mus triusculus pas britaing process. 2 mRNA, complete cds	RIVA FOLLING SET binding protein 2 hamolog (p53BP2), partial cDNA	dehydrogenase and Zinc finger protein 185	Mus musculus chromosome X contigA; putative Magea9 gene, Caltractin, NAD(P) steroid	contains Alu repetitive element;contains element MER22 repetitive element;		Arabidopsis maliaria ONA dilicitosomo F. Comila mandia annoma	Pyrococcus normously of a generalization of a continuously of a continuously of a generalization of a continuously of a	A conysaetos filiocalorigitai cycomic DNA 777001-994000 nt. position (4/7)	b. Laurids (IIII dosaisiline (C. 111121)	6. taurus rilicosatellite (CTH191)	Toxoplasma gondii 90kDa heat-shock protein (HSP90) mRNA, partial cds

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		9784 141	9730 141	9667 14	9568 14	9515 14	9515 140	9384 14	9189 147	9141 143		8730 138	8673 13	8626	8204	7596	7523	7217 12427	7159	6972 12157		6546 11	6483 116			T		П	Т	9411 144
		14883 2.2	14824 1.3	14756 1.6	14666 1.2	14605 0.8	14604 0.8	14467 1.0	14274 13.1	14223 1.0	13883 0.9	13827 1.7	13777 1.1	0.9	1.0	3.5	1.0	1.2	3.6	157 3.1	12156 3.1	11720 1.0	11650 1.0	11649 1.0	1.4	10756 0.5	15349 0.8		T	14498 5.1
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	H04858.1	AW027920.1	AF142703.1	U01103.1	AA457617.1	AB021180.1	AB021180.1	AF175293.1	BE080598.1	2.60E-01 AW959510.1	AB017446.1	AF229118.1	M22342.1	BE217816.1	AW974531.1	BE272440.1	Y12996.1	M11844.1	AW733152.1	AL161472.2	AL161472.2	AB013290.1	4557640 NT	4557640 NT	D16459.1	P78411	2.70E-01 BE182123.1	AW856131.1	L27516.1	6680855 NT
	EST_HUMAN	EST_HUMAN	NT	Z,	EST_HUMAN	NT	NT	N <sub>T</sub>	EST_HUMAN	EST_HUMAN	NT	NT	3	EST_HUMAN	EST HUMAN	EST_HUMAN		NT	EST_HUMAN	N <sub>1</sub>	NT	Z	ONT	ONT	N,	SWISSPROT	EST_HUMAN	EST_HUMAN	NT	5NT
	y/51e05.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:152288 5	ws62h11.x1 NCI_CGAP_Bm23 Homo sapiens cDNA clone IMAGE::2501829 3' similar to SW:MEI3_MOUSE P97368 HOMEOBOX PROTEIN MEIS3 ;	Ophrestia radicosa maturase-like protein (matK) gene, complete cds; chloroplast gene for chloroplast product	Arabidopsis thaliana PSI type III chlorophyll a/b-binding protein (Lhca3*1) mRNA, complete cds	aa89d07.r1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:838477 5'	Gallus gallus mRNA for skeletal myosin heavy chain, complete cds	Gallus gallus mRNA for skeletal myosin heavy chain, complete cds	Enterococcus taecium strain N97-330 vanD glycopeptide resistance gene ciuster, complete cds; and unknown gene	QV1-BT0630-040400-132-e03 BT0630 Homo saplens cDNA	EST371580 MAGE resequences, MAGF Homo sapiens cDNA		Homo sapiens acetylcholinesterase collagen-like tail subunit (COLQ) gene, exons 1A, 2, 3, 4, and 5	Bacteriphage T2 DNA-(adenine-N6)methyltransferase (dam) gene, complete cos		EST 38653 MAGE resequences, MAGM FIGURE SUPPLY CONTROL OF STANDARD		B.maritimus rbcL gene	Human prealbumin gene, complete cds	bb04d10.x1 NIH_MGC_14 Homo saplens cDNA clone IMAGE:2958451 3' similar to gb:M36072 60S RIBOSOMAL PROTEIN L7A (HUMAN); gb:M14689_cds1 Mouse surfeit locus surfeit 3 protein gene (MOUSE);	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 2	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 2		Homo saplens histone deacelylase 2 (HDAC2), mRNA	Homo saplens histone deacetylase 2 (HDAC2), mRNA	Bos taurus mRNA for mb-1, complete cds	IROQUOIS-CLASS HOMEODOMAIN PROTEIN IRX-2	PM3-HT0642-290300-001-b05 HT0642 Homo sapiens cDNA	RC1-CT0286-230200-016-e03 CT0286 Homo sapiens cDNA	Triticum aestivum (Wcs66) gene, complete cds	Mus musculus corticosteroid binding globulin (Cbg), mRNA

2.40E-01  AA936316.1
AF242431.1 NT AF242431.1 NT AF007768.1 NT AB011070.1 NT AW663183.1 EST_HUMAN AW663183.1 EST_HUMAN AW663183.1 EST_HUMAN
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GGLUTININ ATTACHMENT SUBUNIT PRECURSOR  B PROTEIN  B PROTEIN  B PROTEIN  I musculus neuronal apoptosis inhibitory protein 6 (Naip6) gene, complete cds; a musculus neuronal apoptosis inhibitory protein 2 (DAP2) mRNA, complete constoneura fumiferana diapause associated protein 2 (DAP2) mRNA, complete constoneura fumiferana diapause associated protein 2 (DAP2) mRNA, complete constoneura fumiferana diapause associated protein 2 (DAP2) mRNA, complete constoneura fumiferana diapause associated protein 2 (DAP2) mRNA, complete constoneura fumiferana diapause associated protein 2 (DAP2) mRNA, complete constoneura fumiferana diapause associated protein 6 (Naip6) gene dag portion s musculus annexin v gene for uncoupling protein 3, 5-flanking region and partial 5'UTR is musculus gene for uncoupling protein 3, 5-flanking region and partial 5'UTR is musculus gene for uncoupling protein 3, 5-flanking region and partial 5'UTR is musculus gene for uncoupling protein 3, 5-flanking region and partial 5'UTR is musculus gene for uncoupling protein 3, 5-flanking region and partial 5'UTR is musculus gene for uncoupling protein 3, 5-flanking region and partial 5'UTR is musculus gene for uncoupling protein 3, 5-flanking region and partial 5'UTR is musculus gene for uncoupling protein 3, 5-flanking region and partial 5'UTR is musculus gene for uncoupling protein 3, 5-flanking region and partial 5'UTR is musculus gene for uncoupling protein 3, 5-flanking region and partial 5'UTR is musculus gene for uncoupling protein 3, 5-flanking region and partial 5'UTR is musculus gene for uncoupling protein 3, 5-flanking region and partial 5'UTR is musculus gene for uncoupling protein 3, 5-flanking region and partial 5'UTR is musculus gene for uncoupling protein 5 (Naip 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
TTACHMENT SUBUNIT PRECURSOR  TTACHMENT SUBUNIT PRECURSOR  TO 11-16  IN 11-16
T SUBUNIT PRECUKSOR  T SUBUNIT PRECUKSOR  I Sis inhibitory protein 6 (Naip6) gene, complete cds; a suse associated protein 2 (DAP2) mRNA, complete cause associated protein 3 (DAP2) mRNA, complete cause associated protein 2 (DAP2) mRNA, complete cause and partial 5'UTR and gag portion are recovered by the protein 3,5'-flanking region and partial 5'UTR inline element;  GBC S1 Homo sapiens cDNA done IMAGE:2968649 5' similar and complete com
PRECURSOR  protein 6 (Naip6) gene, complete cds; a protein 2 (DAP2) mRNA, complete cted protein gment containing 5' LTR and gag portion alement s. cDNA clone IMAGE:2968649 5' similars cDNA clone IMAGE:2968649 5' similars cDNA clone IMAGE:1562023
aip6) gene, complete cds; a pof) gene, complete complete complete coming 5' LTR and gag portion region and partial 5'UTR e IMAGE:2968649 5' simila le IMAGE:2968649 5' simila DNA done IMAGE:1562023
omplete cds; a  IA, complete c  IA, complete c  IA gag portion

MAN 601175562F1 NIH MGC 17 Homo sapiens curva cione invasce: 333 iv i 3 3 1 13		74 0071 0011	2.306-01	0.5	13043	7841	10.17
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601175562F1 NIH_MGC_1/ Homo sapiens	NT	M11319.1	2.30E-01 M11319.1	1.0	12904	П	2615
	EST_HUMAN	2.30E-01 BE297718.1	2.30E-01	0.6	12701	7496	2396
	N	AJ235353.1	2.30E-01	1.3		7	1999
Mus musculus cdh5 gene, exon 1, parual	Z	Y10887.2	2.30E-01	1.0	11910	6740	1614
Brassica napus sig gene for S-locus glycoprotein, cultivar 12	NT	AJ245480.1	2.30E-01	1.4	11883		1586
	NT	U22837.2	2.30E-01	0.9		6673	1546
Yersinia pestis HmsH (hmsH), HmsF (hmsF), HmsR (hmsR), and HmsS (hmsS) genes,						Т	
Mus musculus vacuolar protein sorting 4b (yeast) (Vps4b), mRNA	N.	6677980 NT		0.5	11790	7	1494
	EST_HUMAN	BE311893.1		1.1	11219	200	918
Thermotoga maritima section 20 of 136 of the complete genome	NT	AE001708.1	2.30E-01 /	1.6	11160	8	851
Thermotoga maritima section 20 of 136 of the complete genome	N.T	AE001708.1	2.30E-01	4.4	11094	5943	792
Methanococcus jannaschii section 138 of 150 of the complete genome	N	U67596.1	2.30€-01	6.8	10935	5809	651
Mycoplasma genitalium section 35 of 51 of the complete genome	N	U39713.1	2.30E-01	1.5		5780	621
	N	S75898.1	2.30E-01	0.9	10685	5552	383
	N	7657600 NT	2.40E-01	1.4	15347	10279	5188
qo23f01.x1 NCI_CGAP_Lu5 Homo sapiens	EST_HUMAN	Al302019.1	2.40E-01	1.0	15277	10197	5101
	NT	D00944.1		50.2	15154	10084	4981
QV1-HT0412-020400-136-b10 HT0412 Hon	EST_HUMAN	BE160080.1	2.40€-01	0.9	15018	9926	4817
	EST_HUMAN	Al123160.1	2.40E-01	1.3	14913	9186	4704
Herpesvirus saimirt C-488 DNA for ORF 12 to 25	N	Y13183.1	2.40E-01	78.8	14800	9708	4594
	TN	AJ009861.1	_	2.4	14106	9007	3871
H.saplens AGT gene, Pstl fragment of intron 4	NT	X74209.1		1.9	13363	8259	3109
	NT	U72726.1	2.40E-01	2.8		8244	3093
Bovine adenovirus 3 complete genome	NT	2.40E-01 AF030154.1	2.40⊑-01	2.4	13042	7840	2756
S.pombe swi6 gene	TN	X71783.1		0.8	13023	7818	2734
D.discoideum (Ax3-K) ponA gene	NT.	Z36534.1	2.40E-01	0.6	12792	7588	2491
Aquifex aeolicus section 12 of 109 of the complete genome	N	AE000680.1	2.40E-01	0.7	12537	7323	2215
IMMUNOGLOBULIN A1 PROTEASE PREC	SWISSPROT	P45384	2.40E-01 F	1.2		7232	2122
genes	NT	AF111168.2	2.40E-01	0.9	12407	7202	2091
Labory's Griummadas industration from the property of the complete cds: and unknown	2	AF251708.1	2,40E-01 /	0.5	12161	6976	1858
complete cds	NT NT		1	8.7		6927	1808
Mesembryanthemum crystallinum putative potassium channel protein Mkt1p mRNA,							
Homo sapiens FLI-1 gene, partial	TN		2.40E-01	1.0	11655	2 2 2 2 2 3	1362
Homo saplens KIAA0851 gene (partial), XT3 gene and LZTFL1 gene	N	AJ289880.1	2.40€-01 /	5.9	11574	6412	1282

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2926   8005   13193   1.3   2.00E-01   A4601793 1   EST_HUMAN   Contains A language pulse element.com Englance deliverage placental NS2PH Homo septems CPUNA done IMAGE:19357 3   2.00E-01   A4601793 1   EST_HUMAN   M/21b07.st Scarce placental NS2PH Homo septems CPUNA done IMAGE:19357 3   1322   6468   1393 1.1   2.00E-01   R82732.1   EST_HUMAN   M/21b07.st Scarce placental NS2PH Homo septems CPUNA done IMAGE:19357 3   1372   2.00E-01   R82732.1   NT   Image: Contain NS2PH Homo septems A contain Repairment NS2PH Homo septems Independent Place A contain Repairment NS2PH Homo septems Independent NS2PH Homo septems A contain Repairment Repair
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8085         13193         1.3         2.30E-01         AA601379.1         EST_HUMAN           8101         13207         0.9         2.30E-01         AB005200.1         NT           8196         5.7         2.30E-01         R21732.1         EST_HUMAN           8468         13583         1.1         2.30E-01         R21732.1         IST_HUMAN           8904         13993         1.1         2.30E-01         R82821.1         NT           8992         3.7         2.30E-01         R82252.1         IST_HUMAN           9378         14458         0.9         2.30E-01         R82252.1         INT           9424         3.4         2.30E-01         R82789.1         NT           9471         14563         1.0         2.30E-01         D90899.1         NT           9508         14593         2.1         2.30E-01         AF092535.1         NT           9698         14792         22.6         2.30E-01         AB001995.1         NT           9894         14987         0.8         2.30E-01         AB003995.1         NT           9894         14987         0.8         2.30E-01         AE003995.1         NT           9894
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8085         13193         1.3         2.30E-01         AA601379.1         EST_HUMAN           8101         13207         0.9         2.30E-01         AB005200.1         NT           8196         5.7         2.30E-01         R21732.1         EST_HUMAN           8468         13583         1.1         2.30E-01         H69836.1         EST_HUMAN           8904         13993         1.1         2.30E-01         S82821.1         NT           8992         3.7         2.30E-01         R82252.1         EST_HUMAN           9378         14458         0.9         2.30E-01         R82252.1         EST_HUMAN           9424         3.4         2.30E-01         R82989.1         NT           9471         14563         1.0         2.30E-01         D90899.1         NT
8085         13193         1.3         2.30E-01         A6601379.1         EST_HUMAN           8101         13207         0.9         2.30E-01         AB005200.1         NT           8196         5.7         2.30E-01         R21732.1         EST_HUMAN           8468         13583         1.1         2.30E-01         H69836.1         EST_HUMAN           8904         13993         1.1         2.30E-01         S82821.1         NT           8992         3.7         2.30E-01         R82252.1         EST_HUMAN           9378         14458         0.9         2.30E-01         R82252.1         EST_HUMAN           9424         3.4         2.30E-01         L78789.1         NT
8085         13193         1.3         2.30E-01         A6601379.1         EST_HUMAN           8101         13207         0.9         2.30E-01         AB005200.1         NT           8196         5.7         2.30E-01         R21732.1         EST_HUMAN           8468         13583         1.1         2.30E-01         H69836.1         EST_HUMAN           8904         13993         1.1         2.30E-01         S82821.1         NT           8992         3.7         2.30E-01         R82252.1         EST_HUMAN           9378         14458         0.9         2.30E-01         R82252.1         EST_HUMAN
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0.9	1.3	1.0	0.6	1.2	0.8	0.9	0.9	0.6	1.0	1.3	1.2	1.3	1.0	1.0	2.0	1.7	0.7	1.4	1.3	1.2	1.2	0.7	0.9	0.6	0.6	0.6	1.2	1.2	2.5	1.2	::	1.2
2.00E-01	2.00E-01	2.00E-01	2.00E-01	2.00E-01	2.00€-01	2.00€-01	2.00E-01	2.00E-01	2.10E-01	2.10E-01	2.10E-01	2.10E-01	2.10E-01	2.10E-01	2.10E-01	2.10E-01	2.10E-01	2.10E-01	2.10E-01	2.10E-01	2.10€-01	2.10E-01	2.10E-01	2.10E-01	2.10E-01	2.10E-01	2.20E-01	2.20E-01	2.20E-01	2.20E-01	2.20E-01	2.20E-01
AL163213.2	4826749	D90905.1	AF027865.1	M77085.1	_	Al475599.1	AI475599.1	AB017437.1		AJ009794.1	AB010273.1	AB033041.1	P11675	P11675	AF069511.1	6912445 NT	AA906824.1	6981303 NT	AE00198	6754299 NT		AE00231	AL161504.2	AA569289.1	AA827018.1	AA827018.1	L13299.1	M86524.1	AA211216.1	D50604.1	Z54148.1	U01307.1
NT	NT	NT	Z,	NT	NT	EST_HUMAN	EST_HUMAN	N	ZT	3	NT	N	SWISSPROT	SWISSPROT	NT	SI NT	EST_HUMAN	3 NT	N,	NT	NT	NT	NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	NI	NT	EST_HUMAN	NT	T	NT
Homo sapiens chromosome 21 segment HS21C013	Homo saplens A kinase (PRKA) anchor protein (gravin) 12 (AKAP12), mRNA	Synechocystis sp. PCC6803 complete genome, 7/27, 781449-920915	Mus musculus Major Histocompatibility Locus class II region	O.cunniculus germline IgH heavy chain V-H pseudogene, allotype VHa2	Homo sapiens CGI-18 protein (LOC51008), mRNA	tc92g12.y1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2073670 5 similar to contains Alu repetitive element;	contains Alu repetitive element;	Gallus gallus mRNA for avena, complete cos	Saccharomyces cerevisiae tau138 (1 FC3) gene, complete cos	Homo sapiens hox11 proto-oncogene, exons 1 to 3 and nug-1 gene	Homo saplens pshsp47 gene, complete cds	Homo sapiens mRNA for KIAA1215 protein, partial cds	IMMEDIATE-EARLY PROTEIN IE180	IMMEDIATE-EARLY PROTEIN IE180	Rattus norvegicus putative sodium bicarbonate cotransporter (NBC) mRNA, complete cds	Homo sapiens potassium voltage-gated channel, subfamily H (eag-related), member 4 (KCNH4), mRNA	ok/3e02.s1 NCI_CGAP_GC4 Homo saplens cDNA clone IMAGE:1519610 3' similar to gb:K02765 COMPLEMENT C3 PRECURSOR (HUMAN);	Rattus norvegicus Olfactory marker protein (Omp), mkNA	Deinococcus radiodurans R1 section 125 of 229 of the complete chromosome 1	Mus musculus interferon (alpha and beta) receptor 2 (linar2), mRNA	Mus musculus interferon (alpha and beta) receptor 2 (finar2), mRNA	Chlamydia muridarum, section 45 of 85 of the complete genome	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 16	nm31e11.s1 NCI_CGAP_Lip2 Homo sapiens cDNA clone IMAGE:1061804	nr89g09.s1 NCI_CGAP_Pr25 Homo sapiens cDNA clone IMAGE:1175200 3' similar to gb:Z23090 HEAT SHOCK 27 KD PROTEIN (HUMAN);	nr89g09.s1 NCI_CGAP_Pr25 Homo sapiens cDNA clone IMAGE:1175200 3' similar to gb:Z23090 HEAT SHOCK 27 KD PROTEIN (HUMAN);	Mus musculus vinculin gene, exon 3	Human dystrophin gene	zq87c05.r1 Stratagene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:648968 5'	Human beta-cytoplasmic actin (ACTBP9) pseudogene		Human scRNA (BC200 beta) pseudogene

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8576	8493	Г		7433	7045	6991	Т	1	Т	Г	П	╗	$\neg$		Т	7	_	_	$\neg$	П	9489	9078	8785	8661	8584	2100	7403	8	6812	88	6660	6598	6547	6547	6416	6363
13688	13604	Γ	13143	П	12236	121/6	Τ	11642		Π	10932	$\neg$			П	10658		15219	15148	15051	14580	14160	13878		13698					11832	11827	11773	11722	11721	11579	11525
4.6	3.4	5.6	3.9	1.2	0.9	0.0	2 -	G	3.2	0.6	2.5	1.8	1.3	1.3	0.7	2.0	3.5	1.1	6.1	1.1	0.9	0.8	0.8	0.9	0.8	:	2 0	0.5	e.	0.6	0.9	4.9	0.8	0.8	1.3	1.4
1.90E-01	1.90E-01	1.90E-01	1.90E-01	1.90E-01	1.90E-01	1.800-01	1.900	1.905.01	1.905-01	1.90E-01	1.90E-01	1.90E-01	1.90E-01	1.90E-01	1.90E-01	1.90∈-01	1.90E-01	2.00E-01	2.00E-01	2.00E-01	2.00E-01	2.00E-01	2.00E-01	2.00E-01	2.00E-01	2.000	2005	2.00.00	2001-01	2.005-01	2.00E-01	2.00E-01	2.00E-01	2.00E-01	2.00E-01	2.00E-01
1 R16467.1	1.013187.1		Coordo. 1		AF26194	74407100111	AW/831631 1	90E-01 AF184623 1	_ــ		BE07080	1			043474	AF004353.1	7549743	Y19216.1	8922080	AF14708	AF060195.1		P34641		P46607			V82877 1	-		AB007974.1		M64239.1		_	2.00E-01 AJ132695.5
EST_HUMAN		7	141			н	FST HUMAN	Z Z		ENT HIMAN	EST_HUMAN	EST_HUMAN	Z	NT	SWISSPROT	NT		N		NT	NT	NT	SWISSPROT	EST_HUMAN	SWISSPROT		3	Z	2	NIT	2			Z	EST_HUMAN	
y/42/10.r1 Soares fetal liver spieen TNFLS Homo sapiens curvo come invoce.	WOODS WITH STATE OF THE PROPERTY OF THE PROPER	Mouse gene for immunoclobulin diversity region D1	Calling calling availantin (Y) cana complete cds	Company Henridie ness gene partial cale	nuclear gene for chloroplast product		III 2-ST0311-270300-059-E04 ST0311 Homo sapiens cDNA	Plasmodium vivax reticulocyte binding protein-2 (rbp-2) gene, complete cds	Sombum bloolor 22 kDa kafirin cluster	ESTR7784 Fetal jung II Homo sapiens cDNA 5' end	RC3-B10502-251189-011-001 B10302 F0010 September 2 RNA	RC3-B10502-251199-011-001 B10502 Figure sapishes CDNA	Homo sapiens tampoarous protein surface Chinatacuma Process	Homo sapiens iamodariota protein kinasse Crinteracting protein mRNA complete cds	KRUPPEL-LIKE FACIOR 4 (EPI I DELIAL ZING-FINGEN FINGEN FIN	Mus musculus pale ear (ep) gene, wild type allele, 3 legion, palical cos	Rattus norvegicus Aryi nydrocaroon receptor nuclear uaristroator (2000)	Homo sapiens pulative psinnou pseudogene loi neil serenti, como (Amil) mRNA	Homo sapiens hypothetical protein Aori (Aori ), mixton	Homo sapiens garrina-gunarilyi liyulotase gerie, exerie care care care care care care care car	Mus musculus proteasurite regulator in Azorosa esperitive son Brand compilete cds	C. parasiuca eapu gene	CEU-1, TROITIN	/ER21 repetitive elem	(HD-ZIP PROTEIN ATHB-10)	HOMEOBOX PROTEIN GLABRA2 (HOMEOBOX-LEUCINE ZIPPER PROTEIN ATHB-10)		H.saplens Na+-D-glucose cotransport regulator gene	Methanococus lannaschil section 67 of 150 of the complete genome	Homo saniens 14032 Jagged2 gene, complete cds; and unknown gene	Long spriene sodium/lodide symporter mRNA, partial cds	The parience mental charmosome 1 specific transcript KIAA0505	Mouse I - Call I Budgitor alpha (OTNA) mRNA	MOUSE 1-3811 (BCB)(W) alphadata with a second	PM1-H 10422-281289-002-000 H 10422 Fixing September 2011	Homo saplens rac1 gene

Fugu rubripes genes encoding carbamoyi phosphate synthetase III, myosin light chain, MAP2	Ž	Z93780.1	1.90E-01 Z93780.	0.8	14870	9774	4662
Arabidopsis thailana DNA chromosome 4, contig fragment No. 5	NT	1.90E-01 AL161493.2	1.90E-01	0.9	14581	9491	4369
CM3-CT0315-271199-045-b11 CT0315 Homo sapiens cDNA	EST HUMAN	1.90E-01 AW754106.1	1.90E-01	1.9	14208	9124	3992
Schizosaccharomyces pombe DNA for cytoplasmic dynein heavy chain, complete cds	NT	1.90E-01 AB006784.1	1.90E-01	3.0	14132	9045	3910
PAIR-RULE PROTEIN ODD-PAIRED	SWISSPROT	P39768	1.90E-01 P39768	1.0	13989	8900	3762
Rattus norvegicus arylacetamide deacetylase gene, complete cds	NT	1.90E-01 AF264017.1	1.90E-01	0.9	13964	8872	3735

ontains Alu repetitive element;	EST_HUMAN	Н03369.1	1.80E-01	1.1	13807	8709	3570
CVC-BN0041-070300-147-004 BN0041 Homo sapiens CUNA	EST HUMAN	AW995178.1	1.80E-01	1.3	13335	8236	3085
H.saplens Y315 gene	Z	X79037.1		2.0	10327	5226	3040
EXTENSIN PRECURSOR (CELL WALL HYDROXYPROLINE-RICH GLYCOPROTEIN)	SWISSPROT	P13983	1. 1	4.9		8158	3006
x/41a03.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2659756 3'	EST_HUMAN	AW182300.1	1.80E-01	1.1	13127	8024	2873
Jonopsidium acaule LEAFY protein (LEAFY2) gene, partial cds	NT	AF184589.1	1.80E-01	1.6		8019	2868
QV3-DT0018-081299-036-g04-DT0018 Homo saplens cDNA	EST_HUMAN	AW935728.1	1.80E-01	1.1		7749	2660
Ti plasmid virB operon encoding twelve virulence genes, complete cds	NT	J03216.1	1.80E-01	1.5		7520	2421
G922d10x5 NCI_CGAP_Ktd3 Homo sapiens culva Gone invage: 170101113 similar to TR:075836 075936 GAMMA BUTYROBETAINE HYDROXYLASE;	EST_HUMAN	AI733708.1	1.80E-01	0.7		6942	1823
Homo saplens latent transforming growth factor beta binding protein 4 (LIBP4) mRNA	NT	4505036 NT	1.80E-01	0.9		6922	1803
Mus musculus guanylate nucleotide binding protein 1 (Gbp1), mRNA	NT	6753947 NT	1.80E-01	1.3	11785	6614	1487
Mus musculus guanylate nucleotide binding protein 1 (Gbp1), mRNA	NT NT	6753947 NT	1.80E-01	1.3	11784	6614	1487
Yersinia pestis plasmid pCD1	NT	AL117189.1	1.80E-01	1.8	11556	6396	1267
Dictyostellum discoideum plasmid Ddp5, complete genome	NT	AF000580.1	1.80E-01	1.2	11364	6212	1075
wd71f02x1 NCI_CGAP_Lu24 Homo saplens cDNA clone IMAGE:2337051 3'	EST_HUMAN	AI912212.1	1.80E-01	0.9	11267	6111	966
Oryzias latipes gene for membrane guanylyl cyclase OIGC1, complete cds	NT	AB021490.2	1.80E-01	0.7	11025	5883	729
translated products	NT	4502532 NT	1.80E-01	0.8	10677	5544	366
Mus musculus Cotg gene tor chaperonin containing ( CF - garifina suburit, paradi cus	2	AB022090.1	1.80E-01	1.2	10573	7885	260
Mus musculus p116Rlp mRNA, complete cds	Z	U73200.1	1.80E-01	0.8	10343	5238	29
H.sapiens Y315 gene	NT	X79037.1	1.80E-01	0.7	10327	5226	17
Mus musculus Notch gene homolog 3, (Drosophila) (Notch3), mRNA	NT	6679095	1.90E-01	1.0	15321	10248	5153
gb:M21574 ALPHA PLATELET-DERIVED GROWTH FACTOR RECEPTOR PRECURSOR (HUMAN);	EST_HUMAN	Al631199.1	1.90E-01	1.2		10219	5123
S.mansoni elastase HP1 gene	NT	270296.1	1.90E-01	1.0	15287	10209	5113
KINESIN-LIKE PROTEIN KIF4	SWISSPROT	095239	1.90E-01	1.1	15137	10065	4962
Rattus norvegicus chemokine receptor CXCR3 mRNA, complete cds	NT	AF223642.1		1.0		10049	4943
IL3-CT0215-180200-087-D02 CT0215 Homo sapiens cDNA	EST_HUMAN	AW849203.1		0.9	15098	10019	4912
Human papillomavirus type 36, complete genome	NT	U31785.1	1.90E-01	2.1	15049	9964	4857
IL2-ST0311-270300-059-E04 ST0311 Homo saplens cDNA	EST_HUMAN	AW821631.1		2.4	14871	9775	4663
Fugu rubripes genes encoding carbamoyi phosphate synthetase III, myosin light chain, MAP2	NT.	Z93780.1	1.90E-01	0.8	14870	9774	4662
Arabidopsis thallana DNA chromosome 4, contig fragment No. 5	NT	AL161493.2		0.9	14581	9491	4369
CM3-CT0315-271199-045-b11 CT0315 Homo sapiens cDNA	EST_HUMAN	AW754106.1	1.90E-01	1.9	14208	9124	3992
Schizosaccharomyces pombe DNA for cytoplasmic dynein heavy chain, complete cds	NT	1.90E-01 AB006784.1	1.90E-01	3.0	14132	9045	3910
PAIR-RULE PROTEIN ODD-PAIRED	SWISSPROT	P39768		1.0	13989	8900	3762
Rattus norvegicus arylacetamide deacetylase gene, complete cds	NT	AF264017.1	1.90E-01	0.9	13964	8872	3735

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	1.60E-01	1.60E-01	1.0-200.1	1.100	1.70=01	170F-01	1.70E-01	1.70	170=01	1.70E-01	1.70	1 705.01	1 70=-01	1 70E-01	1 700-01	1 70E-01	1.70E-01	1 70=-01	1.70E-01			1 70E-01		1.70E-01		1.70E-01	1.70E-01	1.70E-01	1./05-01	1./01-01	1.802				1.000		1.000	1.000				
	01   D84224.1		_1_	.1.	_1_	1 028376.1	)1 AI247635.1		_1.	AJ235377.1	L				_1	_	_	- 1	AF000716.1		- 1	AF000716.1		AF255051.1		AF081810.1			A3330.1	VE2220 1	PE385164 1	A1439001.1	AL 101200.	AC181358 1	AW814270 1	Y02179 1	1117755.1	AL 161556.2	D37954.1	A 1271735.1	H03369.1	
	11/41	В			3	N	EST_HUMAN	1	NT	NT		N.T	NT	NT	NT	NT	NT	EST_HUMAN	NT			NT		12	7	N N	N.	SWISSPROT		S	EST HUMAN	NI	FST HUMAN		EST HUMAN	Z,	Z	NI	NT	NT	EST HUMAN	
			yh75f12.r1 Soares placenta Nb2HF Horno	Homo sapiens mevalonate village Boile; 5 DNA done IMAGE:135599 5'	Zea mays starch branching enzyme no (20) 800 7	28d liveys valuum acroma lib (se) gene, complete cds	١		Schistocerca gregaria alpha repositive constant statement sapiens cDNA clone	gene fused to intron 5 of the Ar-Hir ELE Being	Homo sapiens derivative 11 prediction in the Architecture in the A	Homo saplens hap 1 gene, complete control in nartial intron 10 of the ALL-1/MILL/HRX	- 13	Oryzias latipes mixiva for guardata cyclase OIGC-R1, complete cds	Taxus canadensis gerally gerally or and ase OIGC-R1, complete cds	Naja naja atra cix- i gelio, bosino dinhosphate synthase mRNA, complete cds	Naja naja atra cix-1 gelie, excits	ICS141031 ENQUIRORS 4.3	gene, parual cus	hemaggiutinin/protease regulation y province control of the contro	Vibrio cholerae hypoxamulile phosphory protein (hapR) gene, complete cds, and YRAL VIBCO	Igene, partial cos	hemaggiutinin/protease regulatory protein (liabry) gene, with	Vibrio cholerae hypoxanthine phosphoribosyltransferase (npt) gene, parties with the Vibrio cholerae hypoxanthine phosphoribosyltransferase (npt) gene, parties with the Vibrio cholerae hypoxanthine phosphoribosyltransferase (npt) gene, parties with the Vibrio cholerae hypoxanthine phosphoribosyltransferase (npt) gene, parties with the Vibrio cholerae hypoxanthine phosphoribosyltransferase (npt) gene, parties with the Vibrio cholerae hypoxanthine phosphoribosyltransferase (npt) gene, parties with the Vibrio cholerae hypoxanthine phosphoribosyltransferase (npt) gene, parties with the Vibrio cholerae hypoxanthine phosphoribosyltransferase (npt) gene, parties with the Vibrio cholerae hypoxanthine phosphoribosyltransferase (npt) gene, parties with the Vibrio cholerae hypoxanthine phosphoribosyltransferase (npt) gene, parties with the Vibrio cholerae hypoxanthine phosphoribosyltransferase (npt) gene, parties with the Vibrio cholerae hypoxanthine phosphoribosyltransferase (npt) gene, parties with the Vibrio cholerae hypoxanthine phosphoribosyltransferase (npt) gene, parties with the Vibrio cholerae hypoxanthine phosphoribosyltransferase (npt) gene, parties with the Vibrio cholerae hypoxanthine phosphoribosyltransferase (npt) gene, parties with the Vibrio cholerae hypoxanthine phosphoribosyltransferase (npt) gene, parties with the Vibrio cholerae hypoxanthine phosphoribosyltransferase (npt) gene, parties with the Vibrio cholerae hypoxanthine phosphoribosyltransferase (npt) gene, parties with the Vibrio cholerae hypoxanthine phosphoribosyltransferase (npt) gene, parties with the Vibrio cholerae hypoxanthine phosphoribosyltransferase (npt) gene, parties with the Vibrio cholerae hypoxanthine phosphoribosyltransferase (npt) gene, parties with the Vibrio cholerae hypoxanthine phosphoribosyltransferase (npt) gene hypoxanthine pho	Homo sapiens BNIP3H (BNIP3H) gene, compros	Eyillaristic Commission Commission and Bar gene for mitochondrial produc	l ymantia dispar nucleopolyhedrovirus, complete genome	I vmantha dispar nudeopolyhedrovirus, complete genome	NEUROFILAMENT TRIPLET L PROTEIN (NEUROFILAMEN) LIGHT FOLIT E	P.dumenili histone gene cluster for core histones n.z., 125, 125, 125, 125, 125, 125, 125, 125	601274604F1 NIH MGC 20 Homo sapiens CONA Colin III	Homo Sapiens hisH1 gene, 5' UTR	157604.x1 NCI_CGAP_Lym12 Homo sapiens CUVA cond in 1997	Mesocricetus auratus Na-taurocholais cou ansporting Four IMAGE:2134590 3'	MR3-ST0203-151299-112-gub S10203 From September of MRNA, partial cds	S.tuberosum mRNA for alconol derivoir genians cDNA	Human laminin S B3 chain (Lewiss) gent, Common laminin S B3 chain (Lewiss) gen	Arabidopsis thaliana UNA Cillumiscinio 1, 2000 g	Bovine NB25 mRNA for MHC class if (DCC ) County (Transport No. 56	Homo sapiens Xq pseudoautosoniai regioni, complete cds	contains Alu repetitive element;	

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3308	3013	2999	1866	1466	1254	1254	1198	1104	1097	1081	1076	766	567	4958		4889	4889	4865	4846	4781	4781	4361	4353	4249	4234	3583	3581	3581	2863	2863	2443	2335	2247		1941	1882
8453	8165	8151	6984	6593	6383	6383	6330	6242		6219	6214		5728	10061				9972	9953	9891	9891	Т	Т	$\neg$	$\neg$	Т	8720	$\neg$	$\neg$	8014	7542		7353		Т	7000
13566	13266	13251	12168	11770	11543	11542	11485	11395		11370	11366	11066	10845	15133		15079	15078	15056	15042	14984	14983			14454	14440		13818	13817	13116	13115	12750	12647	12560			12185
4.2	3.5	0.9	0.6	0.5	1.0	1.0	1.4	1.0	0.6	0.6	0.9	1.4	0.7	:		1.9	1.9	1.1	7.1	0.9	0.9	4.0	2.4	4.0	7.9	0.9	1.3	1.3	8.9	8.9	0.8	1.0	1.8		1.0	0.9
1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.50E-01	1.60E-01		1.60E-01	1.60E-01	1.60E-01	1.60E-01	1.60E-01	1.60E-01	1.60E-01	1.60E-01	1.60E-01	1.60E-01	1.60E-01	1.60E-01	1.60E-01	1.60E-01	1.60E-01	1.60E-01	1.60E-01	1.60E-01		1.60E-01	1.60E-01
AA935049.1	P01138	M81441.1	AW444451.1	AF117340.1	1.50E-01 D26535.1	.50E-01 D26535.1	AW195516.1		L36125.1	AJ251885.1	AJ009735.1	AL163284.2	U34206.1	BE018707.1		AJ006356.1	AJ006356.1	AA088343.1	AF187881.1	Z28330.1	Z28330.1	6753319	AW968601.1	_			AJ003165.1	AJ003165.1	AF185589.1	AF185589.1	AB037729.1	X94232.1	AF109907.1		U10334.1	P22063
EST_HUMAN	SWISSPROT	T	EST_HUMAN	S	N <sub>1</sub>	Z T	EST_HUMAN	SWISSPROT	NT	NT	NT	3	NT	EST_HUMAN		N	N	EST_HUMAN	NT	N	NT	IS NT	EST_HUMAN	NT	NT	EST_HUMAN	NT	NT	NT	NT	NT	NT	NT		Z	SWISSPROT
0068d05.51 NCI_CGAP_GC4 Homo sapiens cuna done image: 1971337 3 similar to gb:M11433 RETINOL-BINDING PROTEIN I, CELLULAR (HUMAN);	BETA-NERVE GROWTH FACTOR PRECURSOR (BETA-NGF)	Bos taurus factor V variant 2 (factor V) mRNA, complete cds	UI-H-BI3-akb-b-09-0-UI.s1 NCI_CGAP_Sub5 Homo saplens cDNA clone IMAGE:2733641 3'	Mus musculus MAP kinase kinase kinase 1 (Mekk1) mRNA, complete cds		Human gene for dihydrolipoamide succinyitransferase, complete cds (exon 1-15)	xn39d11.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2696085 3'	PROBABLE CATION-TRANSPORTING ATPASE 9	Rattus norvegicus insulin-responsive glucose transporter (GLUT4) gene, 5' end	Homo sapiens partial SLC22A2 gene for organic cation transporter (OCT2), exon 1	Cyprinus carpio mRNA for EGGS22 myosin heavy chain, 3'UTR	Homo sapiens chromosome 21 segment HS21C084	Cricetulus griseus 170 kDa glucose regulated protein (grp 170) mRNA, complete cds	(MOUSE);	bb83h08.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3049023 5' similar to gb:m61715 TRYPTOPHANYL-TRNA SYNTHETASE (HUMAN); gb:X69657 M.musculus	Lycopersicon esculentum Rsal fragment 2, satellite region	Lycopersicon esculentum Rsal fragment 2, satellite region	zi84h09.s1 Stratagene colon (#937204) Homo sapiens cDNA clone IMAGE:511361 3 similar to TR:E221955 E221955 38,855 BP SEGMENT OF CHROMOSOME XIV.:	Homo sapiens leukointegrin alpha d gene, promoter and partial cds	S.cerevisiae chromosome XI reading frame ORF YKR105c	S.cerevisiae chromosome XI reading frame ORF YKR105c	Mus musculus chaperonin subunit 3 (gamma) (Cct3), mRNA		Homo sapiens chromosome 21 segment HS21C079	Homo sapiens apelin gene, complete cds	tu09f09.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2250569 3'	Populus trichocarpa cv. Trichobel ABI3 gene	Populus trichocarpa cv. Trichobel ABI3 gene	Homo sapiens cytochrome P450 3A4 (CYP3A4) gene, promoter region	Homo sapiens cytochrome P450 3A4 (CYP3A4) gene, promoter region	Homo sapiens mRNA for KIAA1308 protein, partial cds	H.sapiens mRNA for novel T-cell activation protein	and S171 gene, partial cds	Homo sapiens S164 gene, partial cds; PS1 and hypothetical protein genes, complete cds;	Crassostrea gigas RNA polymerase II largest subunit mRNA, partial cds	AXONIN-1 PRECURSOR (AXONAL GLYCOPROTEIN TAG-1)

		1 3 1 50E-01 U09964.1 NT		3380 8523 13629 1.0 1.50E-01 AW612237.1 EST HUMAN contains element ME	3322 8466 13581 0.9 1.50E-01 (223104.)	TO0101	3580 0.9 1.50E-01 Z23104.1	- INT
GIO 4011) 4140 4111111	Tilling applicate my water dehydrogenase kinase, isoenty ine i (Cont), income of	1 (DDK1) nuclear pane encoding	Mus musculus icroomiss glycolorous pro-critical in the second of the sec	contains element MER16 repetitive element;	LEGGE A NCI CCAB 11:24 Homo sapiens cDNA clone IMAGE:2956539 3' similar to	stagnalis mkna for G protein-coupled receptor	Totals coupled receptor	I stannalls mRNA for G protein-coupled receptor

I I I I I I I I I I I I I I I I I I I	2	AL163284.2	1.40E-01	1.0	15291	_	511
Homo canlane chromosome 21 segment HS21C084	1	WAAA000075''	1_	0.9		2 10132	5032
QV3-SN0022-100500-186-h09 SN0022 Homo sapiens cDNA	EST HUMAN	AWISSENSS 1		1.2		9913	4803
protein 275, Zinc finger protein 92, mmxq28orf	Z T	AI 049866.2		<u>.</u>		$\neg$	
Miss missrulis chromosome X contigB; X-linked lymphocyte regulated 5 gene, Zinc finger	EST_HUMAN	AA776287.1	1.40E-01	0.8		9436	4313
3' similar to gb:X01057_ma1 INTERLEUKIN-2 RECEPTOR ALPHA CHAIN PRECURSOR							
7/50h01.s1 Soares fetal liver_spieen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:453673	2	AE001/10.1	1.40E-01	3.2	14349	9270	4144
Thermotoca maritima section 22 of 136 of the complete genome	EST HUMAN	A1699094.1		8.4	14295	Т	4083
LEGAD VI NCI CGAP 1:124 Homo sapiens cDNA clone IMAGE:2273570 3'		A1699094.1		8.4	14294	7	4083
WERNIN X1 NC! CGAP Lu24 Homo sapiens cDNA clone IMAGE:2273570 3'	EST HIMAN	R59232.1	_	1.0	14057	$\neg \neg$	3823
1807303 rd Spares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:41467 5	EST LICINON	R59232.1	1	1.0	14056		3823
will 7503.71 Soares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:41467 5	EST LINAN	Al933496.1	1.40E-01	-1:	13049	$\neg$	2762
GENERATION X1 NCI CGAP Ut2 Homo sapiens cDNA clone IMAGE:2441665 3'	SWISSPRO!	P30706	1.40E-01	1.0	12731	$\neg T$	2426
GI VCEROL 3-PHOSPHATE ACYLTRANSFERASE PRECURSOR (GPAT)	CWISCOBOT	AA/20615.1		3.7		7	1942
UI-H-BIT-act-a-09-0-01-31 NOI_COST _COST _	EST_HUMAN	AW135741.1	1	0.9		6981	1863
The state of the s	2	AE001710.1	1.40E-01 /	0.6	12019	6840	1717
Thermotons maritima section 22 of 136 of the complete genome	2	988		0.5		6837	1714
Mus muscallus growth differentiation factor 5 (Gdf5), mRNA	EST HUMAN	T91864.1	ــــــــــــــــــــــــــــــــــــــ	0.6		6367	1238
vasach1 s1 Spares fetal liver spieen 1NFLS Homo sapiens cDNA clone IMAGE:112032 3'			1.400	0.9		8	892
Xenopus laevis mRNA for DNA (cytosine-5-)-methyltransferase, complete cus	Z	AF009003.1		0,7		5482	296
Homo sapiens T cell receptor beta locus, TCRBV8S5P to TCRBV21S2AZ region	27			0.9	15248	10170	5072
Arabidonsis thallana AP2 domain containing protein RAP2.12 mRNA, partial cds	Z			1.3	15108	10036	4929
Ambidons thatiana DNA chromosome 4, contig fragment No. 60	EST HUMAN		1.50E-01 B	1.1	14894	9792	4680
CM0-HT0565-280200-245-510 HT0565 Homo sapiens cDNA		BE173796.1		=	14893	9792	4690
Homo saplens chromosome 21 segment liber contents chink	NT	.2	1	8.4	141	317	100
B.napus miliochondrion DNA for ORF 158	NT		_		1470	2 8	3904
RC2-HT0149-191099-012-c09 HT0149 Homo sapiens CUNA	EST HUMAN	_	50E-01		14039	8943	3806
Populus trichocarpa cv. Trichobel ABI3 gene	3		_1_	e e	14038	8943	3806
Populus trichocarpa cv. Trichobel ABI3 gene	L.	A 1003165 1		2.4	14022	8928	3791
mitochondrial protein, mRNA h110006.x1 Soares NFL T_GBC_S1 Homo sapiens cDNA clone IMAGE:2981411 3'	NT HIMAN	8358		185.3	13935	8844	3706
Complete cas  Homo sapiens pyruvate dehydrogenase kinase, Isoenzyme 1 (PDK1), nuclear gene encoding	NT	U09964.1	1.50E-01 U	1.3	13926	8835	3696
Mus musculus ICR/Swiss glyceraldenyde 3-pnospnate denydrogeniado (Copros)				٤	13029	8523	3380
contains element MER16 repetitive element;	EST_HUMAN	AW612237.1	1 50E-01 A	•	353		
L.Stagriells HINAS IV. C. P. S. Homo sapiens cDNA clone IMAGE:2956539 3' similar to	N.T.	Z23104.1	1.50E-01 Z	9.0	13581	84 65	3322
L Stagnalis microx for G protein-coupled receptor	NT		1.50E-01 Z	0.9	13580	86	3322

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535 5	418 5		5103 10	5074 10	5074 10	4433 9	4218 9	4093 9	4075 9	4066 9	4046 9	3906 9	3734 8	3714 8	3714 8	3667 8	3661 8		3404	2542 7	2329 7	2245 7	2124 7	1916	1426 6	=	1010 6	876	1	620	820		518	T	319	1
5698	5207	5584	10199	10172	10172	9554	9342	9219	9202	9193	9173	92.	8871	8800	8800	8806	8800	8800	8546	7638	7432	7351	7234	7033	6553	6248	6150	6024	5975	5779	5779		5682 2	55	5503	
	L	10717	15279	15251	15250	14648		14302	14288				13963	13895	13894	13900	13895	13894	13654	12838				12221			11303	11182	11135	10902	10901		10803	10631	10630	
0	0.5	2.5	0.9	1.2	1.2	2.2	1.7	16.4	1.9	3.4	1.2	1.7	0.9	0.9	0.9	0.8	1.2	1.2	1.0	1.3	1.1	1.2	1.3	0.9	1.4	0.8	0.5	0.6	=	0.9	0.9		0.6	0.9	0.9	
70-00	1.20E-01	1.20E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01	1.30E-01		1.30E-01	1.30E-01	1.30E-01	
A COOCAS A	U66912.1	Al421744.1	Z73419.1	AL163284.2	AL163284.2	BE272339.1	AL163280.2	AW273741.1	AF026805.1	AW364341.1	AF020713.1	AL161581.2	6978840 NT	AP000001.1	AP000001.1	AB032159.1	AP000001.1	AP000001.1	M21572.1	M86918.1	AE001016.1	AW812104.1	AJ243578.1	AL117078.1	AF146277.1	AL115265.1	AL117078.1	AF139518.1		AJ277606.1	AJ277606.1		AB013139.1	_	4758467 NT	
A1-T	NT	EST_HUMAN	TN	NT	NT	EST_HUMAN		EST_HUMAN	NT	EST_HUMAN	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	EST_HUMAN	NT .	N	TN	NT	NT	NT	NT	N	NT		N.	7 NT	7 NT	
	Dictyostellum discoldeum ORF DG1016 gene, partial cds	tf39b02.x1 NCI_CGAP_Brn23 Homo sapiens cDNA done IMAGE:2098539 3' similar to gb:U05760_ma1 ANNEXIN V (HUMAN);	Mycobacterium tuberculosis H37Rv complete genome; segment 57/162	Homo sapiens chromosome 21 segment HS21C084	Homo saplens chromosome 21 segment HS21C084	601126096F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:2990063 5'	Homo sapiens chromosome 21 segment HS21C080	xv23f10.x1 Soares NFL T_GBC_S1 Homo sapiens cDNA done IMAGE:2813995 3'	Schistosoma mansoni fructose bisphosphate aldolase mRNA, complete cds	QV3-DT0018-081299-036-a03 DT0018 Homo sapiens cDNA		Arabidopsis thallana DNA chromosome 4, contig fragment No. 77	Rattus norvegicus Fibrinogen, gamma polypeptide (Fgg), mRNA	Pyrococcus horkoshii OT3 genomic DNA, 1-287000 nt. position (1/7)	Pyrococcus horikoshli OT3 genomic DNA, 1-287000 nt. position (1/7)	Homo sapiens DD4 gene for dihydrodiol dehydrogenase 4 [AKR 1C4], exon 2	Pyrococcus harikashii OT3 genomic DNA, 1-287000 nt. position (1/7)	Pyrococcus horkashii OT3 genomic DNA, 1-287000 nt. position (1/7)	Bovine branched chain alpha-keto acid dihydrolipoyi transacylase mRNA, complete cds	Carassius auratus keratin type I mRNA, complete cds	Archaeoglobus fulgidus section 91 of 172 of the complete genome	RC4-ST0173-191099-032-d12 ST0173 Homo sapiens cDNA	Rhodopseudomonas acidophila pucB5, pucA5, pucB6, pucA6, pucB7, pucA7, pucB8, pucA8 and pucC genes and ORF151	Botrytis cinerea strain T4 cDNA library under conditions of nitrogen deprivation		Botrytis cinerea strain T4 cDNA library under conditions of nitrogen deprivation	Botrytis cinerea strain T4 cDNA library under conditions of nitrogen deprivation	Rattus norvegicus A-kinase anchor protein mRNA, complete cds	P.dumerili histone gene cluster for core histones H2A, H2B, H3 and H4	Human calidvirus HU/NLV/Girlington/93/UK RNA for capsid protein (ORF2), strain HU/NLV/Girlington/93/UK	HU/NLV/Girlington/93/UK	Human calidvirus HU/NLV/Girlington/83/UK RNA for capsid protein (ORF2), strain	Homo sapiens gene for NBS1, complete cds		Homo sapiens G protein-coupled receptor 50 (GPR50) mRNA	

					10000	2 5/15	552	
In18d08.x1 NCI_CGAP_Bm25 Homo sapielis colve soils ::::	EST_HUMAN	1 10F-01 Al561003.1	1 10=-01		Т	T	8619	
UI-HF-BKQ-aan-d-01-G-01.11 NIT 1:00-C-01 NNA GE:2187983 3'	EST_HUMAN	AW401836.1	1.20€-01	<b>y</b>				
MAGE:3053617 5'		2.51	1.202-01	1.0	15340		5174	
HYPOTHETICAL 52.4 KD PROTEIN C12810.08C IN CHROMOSOME.	SWISSPROT	DIOMAI	2000	100		10268	5174	
HYPOTHETICAL 52.4 KD PROTEIN C12810.08C IN CHROMOSOME	SWISSPROT	010441	1 205-01	1.0	Γ		5012	
HEMOLYSIN PRECURSOR	SWISSPROT	D16466	1 3000		07841		4775	
H.sapiens gene for N-methyl-D-aspartate receptor in leaving or -	NT	Z32774.1	1 205.01	6.7	T	T	4//5	
H. sapiens gene for introduction of the sapients of expose 6-21	NT	Z32774.1	1.20E-01	6.7	J	Т		
nt)	NT	S65019.1	1.20E-01	7.1	14948	9856	4745	
mucin (rats, Sprague-Dawley, sulfur-dioxide-treated tractient epitatement,					14290	9178	4090	
P.Clarkii mkna; repeat region (in Amin')	Y	Z54255.1	1 201-01	33	T	Т	1090	
P.CIARKII MIRNA, repeat region (10 2MRT7)	N.T	Z54255.1	1.20€-01	2.2	14298	Т	100	
Bacilius subulis cultiples genetic (Control	NT	Z99118.1	1.20E-01	1.2	Ī	1	355	
winder living long group of the control of 21 of 21); from 2795131 to 3013540	Z	X56882.1	1.20E-01	-:-		Т	7477	
Wilbert menta for a group 3 late embryogenesis abundant protein (LEA)	2	X56882.1	1.20E-01	1.1	13730	7	3477	
Name of mRNA for a group 3 late embryogenesis abundant protein (LEA)	2	299118.1		0.8		T	3433	_
Bacillus subtilis complete genome (section 15 of 21): from 2795131 to 3013540	NT	06/600.1		1.0		8367	3219	
Methanococcus jannaschii section 142 of 150 of the complete genome	NT	744010000.1		2.0	13455		3192	
0259 H	EST HUMAN	AWAZORRA 1		2.0	34,58	8328	3177	_
Rat tropoelastin gene, exon 28-36	Z	M86376.1	_	300	3400	0320	31//	_
Rat tropoelasun gene, exon 20-30	NT	M86376.1	1.20E-01	20	32.25	22.50	1,07	
Wheat mk.NA for a gloup 3 law ellus / Secretary	Z,	X56882.1		1.0	13232	2135	3074	_
Human Creatile Mildoor History Compenses abundant protein (LEA)	NT	M16364.1	1.20E-01	2.9	13160	8055	2002	
gb:L05095 60S RIBOSOMAL PROTEIN L30 (HUMAN);	EST_HUMAN	AI720470.1	1.20E-01	2.0	13126	8023	2872	
assinction x1 Barstead colon HPLRB7 Homo sapiens cDNA done IMAGE:2335024 3 Similar to		018016.1	1.20E-01	1.5	13069	7963	2812	
Human E1A enhancer binding protein (E1A-F) mRNA, partial cds	NT TOWAR	AI623386.1			12983	7783	2697	
TR:Q14048 Q14048 COLLAGEN VI ALPHA-2 ALTERNATIVE C-TERMINAL DOWN: (1)	EST LIMAN							
1518g07.x1 NCI CGAP Pant Homo saplens cDNA clone IMAGE:2228988 3' similar to	EST HOWEN	AW996556.1	1.20E-01	0.7	12842	7642	2546	_
DV2-BN0046-220300-129-f10 BN0046 Homo saplens cDNA		AL163213.2	1.20E-01 /	1.0	12557	7346	2240	-т
Homo saniens chromosome 21 segment HS21C013	T HUMAN	AW449368.1		0.5		6995	1877	
I II H BIR aki.a. 10.0-1 Ji s1 NCI CGAP Sub5 Homo sapiens cDNA done IMAGE:2734554 3"			1.600	c.o	1	686 <u>2</u>	1739	т-
Vibrio fumissii chitodextrinase gene, complete cds		1144448 1		11.0		6853	1730	ι
H.sapiens DNA for endogenous retroviral like element		Y80211 1	_	1.0	11928	6757	1631	
qt69f09.x1 NCI_CGAP_Eso2 Homo sapiens CUINA Guile IIIVACE: 1000000		1 298240	_	1	1 1909	6/39	1912	Γ
TRANSCRIPTION FACTOR NEATS) (NF-ATC4) (NF-AT3)	SWISSPROT	014934	1 205-01					1
NI IOI EAD EACTOR OF ACTIVATED T-CELLS, CYTOPLASMIC 4 (T CELL	EST_HUMAN	AA897474.1	1.20E-01 A	1.1		6617	1490	-
a/48e/09.51 Soares_NFL_T_GBC_S1 Homo sapielis curs curio incompany precursor. : to TR:Q16671 Q16671 ANTI-MULLERIAN HORMONE TYPE II RECEPTOR PRECURSOR. :								
STANDER 1 MACE: 1460584 3' similar								

Table 4

																_				_	_	_	_		_				_	_	1	_	_	_	_	_	_	
1909	1370	1336	1671		1183		4979	40.	4819	4725	4539	4466		\$ \$4.1	4189	4159	4027			4021	1204	4001	326	3534	3405	3374	3299	7997	2027	2520	2482	2200	3366	1821	1229	1143	1069	599
9 7026		Т	T		3 6316		10082	Т	Т	- 1	9658	9586		_1		9285	9155			9150	Т	Т	Т	П		_ [	8445 15	0110	9140	91076	10/0	7076	7273	6940	6359	7908	6207	5757
6 12215	Γ	T	T		6	Т	15152	T	T	٦	14746	14682			14399					1034	Τ	П	T	٦	13655	13624				13078						11431		10876
6.0	T	T		) n	1.4		<u>:</u>		1.3	1.3	2.0	6.0	2	5.9	8.0	7.9	0.9			1.6	١	1.3	1.2	0.9	1.5	3.0	. 1.4		0.8	2 .	3 -	3	0,8	0.9	0.6	1.4	1.3	1.2
1.000	1.005-01	2000	1 00=01	1 005-01	1.00E-01		1.10E-01		1.10E-01	1.10E-01	1.10E-01	1.100,01	1 100	1.10E-01	1.10E-01	1.10E-01	1.10E-01				1 10=-01	1.102-01	1.10E-01	1.10E-01	1.10E-01	1.10E-01	1.10E-01		1.10E-01		1000	1000	1.10E-01	1.10E-01	1.10E-01	1.10E-01	1.10E-01	1.10E-01
1.000-01   2.1000-1101	AL 101304.2			Al985499.1	062855		Z83335.1		D90908.1	Y07695.1	\$44957.1	2 00000		P14728	AW802056.1		_						X52708.1		X62135.1	_					AWR21909 1	6978676	6755215 NT	AF051784.1	D64004.1	AW972158.1	AL161560.2	AA569006.1
	EST HUMAN	Z		EST_HUMAN	SWISSPROT		N,		3	3	NT		ZI	SWISSPROI	EST_HUMAN	2	N	j	-		EST HUMAN	EST_HUMAN	NT	NT.	Z	EST HUMAN	4		EST_HUMAN	43	EST HUMAN	6NT	5NT	NT	N	EST HUMAN		EST_HUMAN
		Arabidopsis thaliana DNA chromosome 4, contig fragment No. 16	Helicobacter pylori, strain J99 section 53 of 132 of the complete genome	contains MER7.13 MER7 repetitive element :	UNASE II) UNASE II) UNASE II)	DEOXYRIBONUCLEASE II PRECURSUR (DINASE II) (ACID DINASE) (E. COCCIII) III	genes and all'A gene	S.pneumoniae dexB, cap1[A,B,C,D,E,F,G,H,I,J,K] genes, of DF-trialinities diosynthesis		A.Immersus gene for transposesse	1973 nt, segment 1 of 7]	Tapa-1=integral membrane protein TAPA-1 [mice, B cell lymphoma line 38C13, Genomic,	protein (BAW), and WSB1 protein (WSB1) genes, complete cds	HYPO I TIET I CAL OF NO AVINOLETINGE I AVIDAGE anchor protein (AKAP84). BAW	ILS-UMUU/O-UZUDUO-UGO-UVO UMUU/O I IDIIIO SEROIS CONTI	Closopinia ilitiariogadari Naloro Loro egripos con en la contrata de la contrata del contrata de la contrata del contrata de la contrata del contrata de la contrata del contrata de la contrata del co	necestic malanagester klassicht protein (klar) mRNA, complete cds	thioesterase 2 (PPT2), CREB-RP, and tenascin X (TNX) genes, comple>	narial cds: Notch4, PBX2, RAGE, lysophatidic acid acyl transferase-alpha, palmitoyi-protein	Mus musculus major histocompatibility locus class III region:butyrophilin-like protein gene,	MR3-ST0290-290100-025-g07 ST0290 Homo sapiens CUNA	MR3-ST0290-290100-025-g07 ST0290 Homo sapiens CDNA	G.gallus gene encoding non-filstone chroniusurial protein third into	A.Immersus gene for transposase	C. Cellmardul Hucibar Bellio Cri llinogo 81007	SO TABLE STATE OF THE POST OF	mKNA  COLORGE VIII LICC 14 Homo serviene cDNA clone IMAGE:3627066 5'	Mus musculus calcium channel, voltage-dependent, I type, alpha I c subulit (Cacha B).	HSC1RF022 normalized Infant brain cDNA Homo sapiens curva cione of moze	Interleukin-12 p35 subunit [mice, Genomic, 700 nt, segment 4 of 5]	RC0-ST0379-210100-032-g04 ST0379 Homo sapiens cDNA	Rattus norvegicus Procollagen II alpha 1 (Col2a1), mKNA	Mus musculus pre T-cell antigen receptor alpita (Flora), tilining		Synechocysus Sp. PCCoous Complete Benjamin, Formulate Cds	ES 384 142 MAGE ISSEQUENCES, INFOCE FOR 23/27 2868767-3002865		nm08g11.s1 NCI_CGAP_Co10 Homo sapiens cDNA clone IMAGE: 1055020 5 similar to gb:X06985_ma1 HEME OXYGENASE 1 (HUMAN);

I VOTE - F	N.	48092601N1	9.30E-02	1.8	٦		2020	
Homo saplens BAI1-associated protein 3 (BAIAP3) mRNA	27	6/3331/	9.40E-02	0.9		_1	498	
둫	NT	233033.1		4.3	14036	8941	3804	
M.capricolum DNA for CONTIG MC073	ZI.	799050 1		0.9		6939	1820	
Cavla porcellus 3beta-hydroxysteroid sulforalisierase iliniva, compress	NT	I ISSOAL 1	9.400	9.0	Γ.	6939	1820	
Cavia porcellus 3beta-hydroxysteroid sulfotransferase mRNA, complete cus	S	1155944 1	9.50=-02	0.9			5062	
Lycopersicon esculentum polygalacturonase isvenzymo	24					_1		_
1	EST_HOWEN	1.ces266MV	9.50E-02	2.3	14226	9143	4012	
CM2-BN0023-050200-087-f12 BN0023 Homo saplens cDNA	EST HIMAN	9.60E-02 BE061729.1		0.8	15270		5093	
BCS-BT0254-031099-011-a03 BT0254 Homo sapiens cDNA	TOT LINAN	AWS6230.1	9.60E-02	0.9	15111	_1	4932	
FST378303 MAGE resequences, MAGI Homo sapiens cDNA	TOT LIMAN	232686.2		6.0	14453	$\neg \tau$	4248	
$\perp$	NT CONT	9.	9.60E-02	1.0	12564	П	2250	
1	EST HIMAN			1.0	12563	7	2250	
PM3-LT0032-030100-004-501 LT0032 Homo saplens cDNA	EST HIMAN			1.3	12286	$\neg$	1969	
0247d11.x1 Soares_NhHMPu_S1 Homo sapiens CUNA Golle IMPAGE: 1019700	EST HIMAN			1.3	12285	7084	1969	<del>-</del>
0247d11.x1 Soares NhHMPu S1 Homo sapiens CDNA Clotte in CE 1678485 3	EST HUMAN		_	3.6		9036	3901	
CELL SURFACE A33 ANTIGEN PRECURSON (GLYCOTRO ELIA 784853)			_1_	0.9	12536	7322	2214	_
QV1-HT0516-070300-095-a04 HT0516 Homo saplens cDNA	FST HUMAN	10	1	1.0	_	6693	1567	
(FGFR3) mRNA	Ā	503740						_
Homo sanians fibroblast growth factor receptor 3 (achondroplasia, thanatophonic dwarrism)	2	AB005808.1	9.70E-02 A	1.2	11624	6457	1328	Т
Aloa arhorescens mRNA for NADP-mailic enzyme, complete cds	Z			6.7	14338	9257	4131	$\neg$
i catacabaeria maculans beta-tubulin mRNA, complete cds	N		9.80E-02 A	6.7	14337	Ş 7	1424	т
cds I potosobaeria maculans beta-tubulin mRNA, complete cds	4		1	3.3	13359	8256 	3106	
Daucus carota leuccanthocyanidin dioxygenase z (LCCX)			9.000	0.0	12014	6834	1711	
Homo sapiens cytochrome P450, subtamily IIII, polypepure 1 V 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4	4503224 NT	_1_			5714	551	
O.sativa RAmy3C gene for alpha-amylase	NI				13484	8377	3229	Т
Homo sapiens neurexin ill-aipha gene, partial cds	Z Z			1.6		5406		П
1 H6 gyrase 8 subunit (g)	NT -			0.9	15324	10253		Т
Mouse FTZ-F1 gene	EST HOWAIN	=		0.8	-	0244	_	Т
BC3-HT0371-180200-015-c01 HT0371 Homo sapiens cDNA	NI III MAN		1.00E-01 U	6.0	15157		_	7
Human ankyrin (ANK1) gene, exon 42 and complete cds			1	6.0	15156		_	1
Limpa ankyrin (ANK1) gene, exon 42 and complete cds	EST DOMENT		1.00E-01 A	2.1	15034	<u>8</u>	AR SE	- 1
EST364414 MAGE resequences, MAGB Homo sapiens cDNA	-41			1,3	14821	9727	4613	- 1
Drospobila melanogaster tyrosine kinase p45 isoform (fer) mRNA, complete cus	L-		_	1.2		8575	4455	ı
an32c04.y5 Gessler Wilms tumor Homo saplens cDNA clone IMAGE: 1700300	CT HIMAN	ľ	_	1.5	14519	9 <u>4</u> 30	4307	- 1
Chlamydophila pneumoniae AR39, section 91 of 94 of the complete genoritie	7	U/6890.1	_	L	13837	8742	3603	- 1
Human amelogenin (AMELX) gene on X chromosome, paruai promotei regioni	L-		1_	4.7	13387	8279	3130	- 1
EST185958 Colon carcinoma (HCC) cell line II Homo sapiens CUNA 3 ello	EST HIMAN		_	4.7	13386	8279	3130	ı
EST185958 Colon carcinoma (HCC) cell line II Homo sapiens cDNA 5' end	EST HUMAN			1.0	12745	7538	2439	
III.H.BI3-alc-d-07-0-UI.s1 NCI_CGAP_Sub5 Homo saplens cDNA clone IMAGE:2736420 3								ì

Page 37 of 196

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Γ-	2993	8145		5.4	9.30E-02	6912525 NT	5 NT	Homo saplens nasopharyngeal epithelium specific protein 1 (NESG1), mRNA
т-	3051	Г		2.4	9.30E-02	L78810.1	TN	
<del></del>	3228	Т	Т	1.2		Y08582.1		ດົ
<b>T</b>	4080	Т		3.5		BE391943.1	ilt i	44 Homo sa
Т-	228	Т	Т	3.0	9.305.02	BE391943.1	ESI HOMAN	
<u> </u>	228	2 2 2 2	10240	ກີ່ວ	9.201-02	U60315.1	N	-ا
ı	228	5416	Т	1.5	9.20E-02 U60315.1	U60315.1	Z Z	Molliuscum contaglosum virus subtype 1, complete genome
	2180			0.8	9.20E-02	R54156.1	EST HUMAN	V998f07.r1 Soares Infant brain 1NIB Homo sapiens cDNA clone IMAGE-41618 5
	3142	8291	13398	4.5	9.20E-02	Q28631	SWISSPROT	MAJOR EPIDIDYMIS-SPECIFIC PROTEIN E4 (EPIDIDYMAL PROTEIN BE-20)
	3265	8412	13518	1.2	9.20E-02	AA534354.1	EST_HUMAN	
	3537	8678		1.1	9.20E-02	6755215 NT	1	Mus musculus pre T-cell antigen receptor alpha (Ptcra), mRNA
	4145	9271		1.3	9.20E-02	U92048.1	NT	Human herpesvirus 1 strain KOS-63, latency-associated transcript, promoter region
r	4211	9335		1.0	9.20E-02	BE299722.1	EST_HUMAN	600944365F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2860176 5'
Т	4538	9657	14745	1.9	9.20E-02	X96402.1	NT	
Т	417	5206	10308	0.9	9.10E-02	X77665.1	NT	O. cuniculus k12 keratin gene
Т	2365	7467	12671	1.0		P78985	SWISSPROT	6-PHOSPHOFRUCTOKINASE (PHOSPHOFRUCTOKINASE) (PHOSPHOHEXOKINASE
Т	3010	0/0/		-		AW372569.1	EST HUMAN	0349
Т	3959	10298	14175	=		P16415	SWISSPROT	
T	3959	10298	14176	==		P16415	SWISSPROT	ZINC FINGER PROTEIN ZFP-36:
Т	3989	9121	14205	1.6	_	P42526	SWISSPROT	HISACTOPHILIN 2 (HISTIDINE-RICH ACTIN-BINDING PROTEIN 2) (HS II)
Т	4383	9505	14590	1.8	9.10E-02	AL161554.2	NT	
	<u> </u>		·- <u>-</u>					FOLATE RECEPTOR ALPHA PRECURSOR (FR-ALPHA) (FOLATE RECEPTOR 1) (FOLATE RECEPTOR, ADULT) (ADULT FOLATE-BINDING PROTEIN) (FBP) (OVARIAN
Т	727	5881	11022	1.2	9.00E-02	P15328	SWISSPROT	TUMOR-ASSOCIATED ANTIGEN MOV18) (KB CELLS FBP)
	1617	6743	11911	2.3	9.00E-02	BE220482.1	EST_HUMAN	hv39g10.x1 NCl_CGAP_Lu24 Homo saplens cDNA done IMAGE:3175842 3' similar to contains Alu repetitive element:
Ī	2772	7856	13060	1.1	9.00E-02	9.00E-02 AF138522.1	NT	HIV-1 p8c095-06 from USA envelope glycoprotein (env) gene, partial cds
Т	2772	7856	13061	===	9.00E-02	9.00E-02 AF138522.1	NT	
T	3294	8446 6	13550	0.9	9.00E-02	AF279135.1	NT	
Т	4202	9327	14415	0.8	9.00E-02	S68757.1	NT	corticosteroid-binding globulin [Saimiri sclureus=squirrel monkeys, liver, mRNA, 1474 nt]
	4202	9327	14416	0.8	9.00E-02	S68757.1	N <sub>T</sub>	corticosteroid-binding globulin [Salmiri sclureus≖squirrel monkeys, liver, mRNA, 1474 nt]
Γ	4321	9444	14533	1.2	9.00€-02	P55268	SWISSPROT	LAMININ BETA-2 CHAIN PRECURSOR (S-LAMININ)
Γ	4568	9686	14780	1.8		2	NT	
П	5142	10237	15312	1.1			SWISSPROT	REGULATORY PROTEIN ZESTE
	5151	10246	15318	1.0		22.1	EST_HUMAN	MR0-HT0407-140200-009-b04 HT0407 Homo sapiens cDNA
	2338	7440	12649	0.5	8.90E-02	BE153572.1	NAMUH_TSH	
Г	4534	9653	14740	0.9	8.90E-02 /	AA424887.1	EST_HUMAN	zw03d04.s1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:768199 3
Г	1351	6479	11645	1.3	8.80E-02	Q27474	SWISSPROT	PROBABLE DNA LIGASE (POLYDEOXYRIBONUCLEOTIDE SYNTHASE [ATP])

띗	8	
9330	9081	8965
		14064
1.3	3.2	1.0
8.80E-02	8.80E-02 000268	8.80E-02
4580423 N I		28 8965 14064 1.0 8.80E-02 AA299128.1
	SSPROT	EST_HUMAN
nomo sapisis palled SXX gono 3 (ZED92), expressed-Xg28STS protein (XQ28ORF), and	(TAFII-130) (TAFII130)  (TAFII-130) (TAFII130)  (TAFII-130) (TAFII130)	EST_HUMAN EST11595 Uterus Homo saplens cDNA 5' end

LECOCO TELEVISION OF THE PROPERTY OF THE PROPE	OVA JOOL 1901	F4890U	8.20E-02	5.4	14395	9313	4187	_
LEUCOCYTE ANTIGEN CD97 PRECURSOR	CIMICOPPOT	P48980			14394	9313	4187	
I ELICOCYTE ANTIGEN CD97 PRECURSOR	CWICCOBOT	AT 100500-	8.200-02	=	14147	9060	3926	_
Homo sapiens chromosome 21 segment HS21C006	NT:	VE 101100:-	0.200	1.3		П	3733	τ-
Arabidopsis thailana DNA chromosome 4, contig fragment No. 10	Z	AL 484408 9	2000			Г	3036	_
Homo saplens chromosome 21 segment HS21C008	NT.	AI 163206.2	20=02 20=02		١	Т	148	Т
Canis familiaris giutamate transporter (EAA14) mikina, complete cus	NI.	AF167077.2		13	11780	6607	150	Т
Gailus gailus mixiva foi foi Coccan protein garrina soccini	Z	Y08170.2	8.20E-02	2.8		6485	1357	_
INUS MUSCULUS COLORY Sulfidiating lacks of control of the color of	Z	6681050		0.7		6372	1243	7
ulozgoox i suares i viii ilini de ci i serio 3 recentor (granulocyte) (Cst3r), mRNA	ESI HUMAN	AI436797.1	8.30€-02	0.9	13804	8706	3567	一
LESSAGE A SOURCE NITHING ST Homo sapiens cDNA clone IMAGE:2125210 3'	. 11	AI436797.1		0.9	13803	8706	3567	7
THE COLOR NINHMBIL ST Home sapiens CDNA clone IMAGE:2125210 3'	SWISSPRO	P75334	8.30E-02	6.2	13786	8685	3544	_
LYBOTHETICAL LIBORROTEIN MG309 HOMOLOG PRECURSOR		5835680	8.30E-02	0.9	12281	7081	1965	
Ixodes have series mitochandrian complete genome	N	5835680 NI	8.30E-02	0.9	12280	7081	1965	7
No lepaulte diament, complete genome	ES! HUMAN	AA847045.1	_	0.8		9278	4152	
0e09b09.81 NCI_CGAP_UVZ Homo sapiens curva done import.								Т
zd44e11.r1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone iMAGE::345322 3	EST_HUMAN	W69330.1	8.40E-02	<del>.</del> 5	12923	7950	2632	
	Z	AE000652.1	8.50E-02	1.0	12656	7449	2347	Т
TOTAL September 25505 section 130 of 134 of the complete genome	Z	AB00/855.1	8.50E-02	0.6	11625	6459	1330	7
Upmo poplare KIAA0305 mRNA, partial cds	27	U68179.1		0.9	14592	9507	4385	$\neg$
	117	-		3.1		8732	3593	
Dichostellum discoldeum adenylyl cyclase (acrA) gene, complete cds	NT.		_	C.a		2 1 2 2	3264	Г
Dictyostellum discologum phy gene for missian 1,7,7 maprissop	NT .							
inchomonas vaginails bela-lubulii (2005) gene, compressibilità receptor-like protein	NT TN	L05468.1	8.60E-02	2.9	13408	8300	3151	Т
	EST_HUMAN	7.2	8.60E-02	0.8	12518	7306	2197	7
Homo sapiens Ad pseudoduciscinia region, sognicini 1—			8.60E-02	2.4	11523	6361	1232	Т
148) of the complete genome	NT		8.70E-02	1.1		10134 10134	503 <b>4</b>	
Methanobacterium thermoautotrophicum from bases 1176181 to 1189406 (section 101 of				1.6	14010	8/23	4609	Т
Mus musculus JNK Interacting protein-3a (Jip3) mRNA, complete cds	NT	1		3 6	14-10	2 2	38/8	Т
zh68a02.r1 Soares_fetal_liver_spieen_INFLS_3 i nomo septemble constant septemble septemble constant septemble septem	EST HUMAN		8 70E-02	0 8	5			$\neg$
biglycan (BGN) genes, complete cds; and plasma membrane calcium ATPase isoform 3 (PMCA3) gene, partial cds	NT		8.70E-02 U82695.2	3.0	13870	8775	3636	
biglycan (BGN) genes, complete cds; and plasma membrane calcium ATPase Isoform 3 (PMCA3) gene, partial cds	NT	U82695.2	8.70E-02	3.0	13869	8775	3636	-
Homo septions zinc finger protein 92 (ZFP92), expressed-Xq28STS protein (XQ28QRF), and	2	4580423INI	8.80E-02	=		9330	4205	
(TAFII-130) (TAFII130)	SWISSPROT	000268		3.2		9081	3948	
EST11595 Uterus Homo sapiens CUNA O end	EST_HUMAN	AA299128.1	8.80E-02 /	1.0	14064	885	3828	$\neg$
717 0714								

	4187	4187 9313	14396	5.4	8.20E-02 P48960	P48960	SWISSPROT	LEUCOCYTE ANTIGEN CD97 PRECURSOR
丁	5014	5014 10116	15187	2.8	8.20E-02 U76009.1	U76009.1	NT	Mus musculus zinc transporter (ZnT-3) gene, complete cds
T								Pseudomonas putida malonate decarboxylase gene cluster (mdcA, mdcB, mdcC, mdcD,
	1479	6606	11779	1.7	8.10E-02	8.10E-02 AB017138.1	NT	mdcE, mdcG, mdcH, mdcL and mdcM genes), complete cds
٦	5	7879	10316	1.1	8.00€-02	8.00E-02 AW954653.1	EST_HUMAN	EST366723 MAGE resequences, MAGC Homo sapiens cDNA
٦	920	6066	11222	1.3	8.00E-02 U60315.1	U60315.1	NT	Molluscum contagiosum virus subtype 1, complete genome
	1353	6481	11647	4.6	8.00E-02 D63861.	D63861.1	NT	Homo sapiens DNA for cyclophilin 40, complete cds
$\neg$	1671	7923	11972	3.8	8.00E-02 D26535.1	D26535.1	NT	Human gene for dihydrolipoamide succinyltransferase, complete cds (exon 1-15)
	1671	7923	11973	3.8	8.00E-02 D26535.1	D26535.1	NT	Human gene for dihydrolipoamide succinyltransferase, complete cds (exon 1-15)
]								This property at the property of the property

Homo sapiens ASCL3 gene, CEGP1 gene, C11orf14 gene, C11orf15 gene, C11orf16 gene and C11orf17 gene	ZT	AJ400877.1	7.60E-02	0.9	13761	8653	3512
EST112214 Cerebellum II Homo sapiens cDNA 5' end similar to similar to protocadherin 43	EST_HUMAN	AA296447.1	7.60E-02	0.9	13613	8505	3362
Homo sapiens partial AF-4 gene, exons 2 to 7 and Alu repeat elements	NI	AJ238093.1	7.70E-02	2.1		8679	3538
tg48g12.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA done IMAGE:2112070 3' similar to contains MER10.13 MER10 repetitive element;	EST_HUMAN	Al418520.1	7.80E-02	1.0	15357	10288	5197
600943055F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2959693 5'	EST_HUMAN	BE250048.1	7.80E-02	2.7		8828	5019
CM3-SN0032-010400-137-f07 SN0032 Homo sapiens cDNA	EST_HUMAN	AW866884.1	7.80E-02	1.0	11671	7915	1378
contains L1.t3 L1 repetitive element;	EST_HUMAN	AI793275.1	7.80E-02	1.4	11480	6324	1192
	EST_HUMAN	AI793275.1	7.80E-02	1.4	11479	6324	1192
		20000		1.6		90.0	4700
Arabidoneie thaliana RXW241 mRNA nadial cde	NT	AB008010 1	_	3 6	14004	0010	3770
Mus musculus colony sumulating factor 1 receptor (Csffr) mRNA	N T	6681044 NI	7.90E-02	3.3	14003	8913	3776
	EST HUMAN	Al457925.1	-	1.2	13508	84 92	3255
#55g03.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2145460							
ar98c08.x1 Barstead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2173646 3' similar to gb:226876 60S RIBOSOMAL PROTEIN L38 (HUMAN);	EST_HUMAN	AI582029.1	7.90E-02	6.4	13205	8099	2948
600943191F1 NIH_MGC_15 Homo saplens cDNA clone IMAGE:2959510 5	EST_HUMAN	BE250008.1	7.90E-02	1.4	12445	7237	2127
Helloobacter pylori, strain J99 section 62 of 132 of the complete genome	NT	AE001501.1		0.5	11842	6671	1544
Helicobacter pylori, strain J99 section 62 of 132 of the complete genome	NT .	AE001501.1		0.5	11841	6671	1544
Herpesvirus saimir transformation-associated protein (STP), and dinydrotolate reductase (DHFR) gene,s complete cds, and small nuclear RNAs (uRNAs)	NT	M28071.1	8.00E-02	0.9	15031	9942	4834
M.musculus gene for gelatinase B	TN	X72794.1	8.00E-02	5.6		9821	4709
Homo sapiens cAMP responsive element binding protein-like 2 (CREBL2) mRNA	NT	4503034 NT	8.00E-02	1.1		9112	3980
EST378191 MAGE resequences, MAGI Homo sapiens cDNA	EST_HUMAN	AW966118.1	8.00E-02	0.8	13972	8883	3745
Dictyoselium discoldeum cyclic nucleotide phosphodiesterase gene, complete cds	NT	M23449.1	8.00E-02	0.8	11365	6213	2790
Synechocystis sp. PCC6803 complete genome, 17/27, 2137259-2267259	NT	D90915.1		1.0	12636	7426	2323
Synechocystis sp. PCC6803 complete genome, 17/27, 2137259-2267259		D90915.1		1.0	12635	7426	2323
PM3-BT0347-170200-001-b08 BT0347 Homo sapiens cDNA	EST_HUMAN	BE067219.1		1.4	12164	6979	1861
Human gene for dihydrolipoamide succinyltransferase, complete cds (exon 1-15)	T	D26535.1		3.8	11973	7923	1671
Human gene for dihydrolipoamide succinyitransferase, complete cds (exon 1-15)	TN	D26535.1		3.8	11972	7923	1671
Homo sapiens DNA for cyclophilin 40, complete cds	NT	D63861.1	_	4.6	11647	04 04 04 04	1353
Molluscum contagiosum virus subtype 1, complete genome	NT	U60315.1	8.00E-02	1.3	11222	6066	920
EST366723 MAGE resequences, MAGC Homo sapiens cDNA	EST_HUMAN	AW954653.1	_	1.1	10316	7879	5
Pseudomonas putida maionate decarboxylase gene cluster (mocA, mocB, mocC, mocD, mdcE, mdcG, mdcH, mdcL and mdcM genes), complete cds	Zī.	AB017138.1	8.10E-02	1.7	11779	6606	1479
Mus musculus zinc transporter (ZnT-3) gene, complete cds	NT	U76009.1	8.20E-02	2.8	15187	10116	5014
LEUCOCYTE ANTIGEN CD97 PRECURSOR	SWISSPROT	P48960	8.20E-02	5.4	14396	9313	4187

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3958	3822	2994	1725	1484	517	1862		1091	4997	3810	2502		1480	1480	114	114		4927	1801	1465	669	4858	4687	4606	3545	2536	1444	469	4407	1878	767	١	767	4765
8 9091	2 8959	8146	5 6848	Г	7 5681	Г			<del>7 -</del> 10100	8947	7599	$\neg$	$\neg$	Т	5315	5315		10034	7927	7917	П	$\neg$			$\neg$	П	6571	5634	9527	6996	5920		500	9876
14174		6 13247	8 12027	Γ	10802	Г		11380	15168	14043		7	Т	Т	10444	10443				11769	П		14902	14814	13787			10763	14617	12181	11068		11067	
74 1.2		1.7	1.4	T				1.3	8 0.9	0.8	0.9				0.9	6.9		1.0	5.4					3.4	0.9	0.9		1.2	0.8	0.9	1.1			1.0
1.00E-C	7.00E-02	7.00E-02	7.000-02	7.005.02	700000	7,105-02	7 1050	7.10E-02	7.20E-02	7.20E-02	7.20E-02		7.20E-02	7.20E-02	7.20E-02	1.205.02	7 200 00	7.30E-02	7.30E-02	7.305-02	7.30E-02	7.40E-02	7.40E-02	7.40E-02	7.40E-02	7.40E-02	7.40E-02	7.40E-02	7.50E-02	7.50E-02	7.50E-02		7.50E-02	7.60E-02
/.UUE-02   DE0/0207.1	AA815438.1	2 AW138152.1	2 AAOOOOAO. 1	_			2 1 02290 1	2 AB010711.1	1	2 AW298322.1	U14794.1		7.20E-02 AL163301.2	7.20E-02 AL163301.2	AE000882.1		AF000882.1	U12283.1			AE001789.1			L78810.	-		AF03002	AW838547.1	AB015961.1	AL163278.2	5902093 NI		5902093 NT	7.60E-02 AW858844.1
CO	EST HUMAN	EST_HUMAN		FST HUMAN	NT	SWISSPROT	NT	2	NT	EST_HUMAN	2	i	N.	NT	NT		<u>z</u>	12	2		EST HUMAN		NIT	2	EST HUMAN	Z	NT.	EST HUMAN		2	3 2 7		NT	EST_HUMAN
	60S RIBOSOMAL PROTEIN L32 (HUMAN); OVA-BT0407-280100-090-910 BT0407 Homo sapiens cDNA	JI-H-BI1-acy-C-U-U-UST INCLUDATE SOURCE CONA Clone 1375678 3' similar to gb:K03002	STATE OF A NCI COAR Sub3 Homo saniens cDNA clone IMAGE:2716020 3'	zl66f04.s1 Stratagene colon (#937204) Homo saplens cDNA clone IMAGE: 009099 3	Martiellia Mtcut-1 gene	COLLAGEN ALPHA 1(XVI) CHAIN PRECURSOR	partial cds	Human immunodeficiency virus type 1 (D9) proviral structural capsid protein (gag) gene,	Alue on mRNA for MB20, complete cds	Crostoporais mutans pane for diucose-1-phosphate uridylyltransferase, complete cds	ii ii.H.RW0-ail-a-05-0-UI.s1 NCI CGAP. Sub6 Homo sapiens cDNA done IMAGE:2732049 3'	Human immunogelicity vius ypo i some extension	Homo sapiens cilioniosomo e i seguino 26 reverse transcriptase (poi) gene, internal	Homo sapiens chooses 21 segment HS21C101	of the complete genome 21 segment HS21C101	Methanobacterium thermoautotrophicum from bases 1029155 to 1039934 (section of or 140)			Miles musculus transcription factor USF2 (USF2) gene, exons 8-10 and complete cds	Homo sagiens chromosome 21 segment HS21C102	CMD-NN1004-130300-284-g08 NN1004 Homo saplens cDNA	Thermotona maritima section 101 of 136 of the complete genome	Mus musculus ublguintin c-terminal hydrolase related polypeptide (Uchrp), mRNA	Pattue porvenicus Activin receptor like kinase 1 (Acvrl1), mRNA	wi43i01.3. Coard in E	Wild Files Will T GBC S1 Homo sapiens cDNA clone IMAGE:2358385 3	Equine nerves with a sum in course, in the part of the	RC5-L10034-200100-011-103-L1007 complete denome	TOTAL SECTION 044 HORO L TOUSA Homo sapiens CDNA	Long cooling 11-18 name for interleukin-18, intron 1 and exon 2	Ucros sariese chromosome 21 segment HS21C078	Homo saplens sourie Carrier lathilly o (liquiducino inimos and contraction of the contrac	(SLC6A9), mRNA	RC3-CT0347-110300-014-a05 C10347 Homo sapiens curve.  Homo sapiens solute carrier family 6 (neurotransmitter transporter, glycine), member 9

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HOLLO SALIGIA DE CINO PIONINI COCCUETO DE CAS	Z	7706068 NI		0.6	11275	6117	971
Long parience E2E-like protein (LOC51270), mRNA	12.	AF 204002.1		1.3	15332	10261	5167
America alhistrica nucleopolyhedrovirus AcORF17 homolog gene, complete cds	SWISSPROI	Q61703		8.4	15091	10011	4904
INTER-ALPHA-TRYPSIN INHIBITOR HEAVY CHAIN DE PRECONSON (************************************			_				
`	SWISSPROT	Q61703	6.60E-02	8.4	15090	10011	4904
INTER-ALPHA-TRYPSIN INHIBITOR HEAVY CHAIN H2 PRECURSOR (ITI HEAVY CHAIN				1	1300	03/4	3432
_		7108357	6 60E-02	3 ;	13687	Т	3432
Homo sapiens mesothelin (MSLN), transcript variant 1, mKNA		7108357		22	13686	Т	3 5
yi18b10.s1 Soares placenta Nb2HP Homo sapiens cUNA clone IMAGE: 1393793	EST_HUMAN	R64306.1		8.6	13671		3418
MELATONIN-RELATED RECEPTION (19)	SWISSPROT	Q13585		1.3		Т	313
Drosophila melanogaster cactin mRNA, complete cus	Z	AF245116.1	1	0.5	1102	7	1347
SW:LIN1 NYCCO P08548 LINE-1 REVERSE TRANSCRIPTASE HOMOLOG. :	EST_HUMAN	AI735509.1	6.60E-02	i	11621	6455	1326
PLAND AT REMARKS AND HOLDER HOLDERS HOME Sablens cDNA clone IMAGE:2354920 3' similar to	SWIGGERO	P17278	6.70E-02	3.5	13888	8795	3656
contains element TAR1 repetitive element ;	EST_HUMAN	AW301973.1	6.70E-02	0.8	13573	8461	3316
xr85h01.x1 NCI_CGAP_Lu26 Homo saplens cDNA clone IMAGE:2766961 3' similar to		¥110100.		=	13220	8113	2962
Yeast (S.pombe) cdc25+ gene (mitosis initiation), complete cds	Z <sub>T</sub>	M13158 1			10210	T	7067
Yeast (S.pombe) cdc25+ gene (mitosis initiation), complete cds	- 8	M13158.1	6.70E-02	1 6	13310	Т	1851
Iqg79e04.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1841406 3	EST HUMAN	AI220285.1		0 0	13464	300	101
cds	Z T	AF115536.1	6.70E-02	) 39		200	471
Caerioritationis eregans LDE 1007 Protein (OnmyTAP1) mRNA, OnmyTAP1°01 alleie, complete	2	M96150.1	6.80E-02	0.9	14976	9883	4773
Minoritions of the same I DI recentor-related protein (in-1) gene, complete cds	EST COMPAN	2		0.9		9573	4453
	EST HIMAN			1.2	13314	8213	3062
	EST HIMAN	AA784006 1		1.2	13313	8213	3062
	EST HIMAN	AA791006 1	6.80T-02	1.2	13312	8213	3062
ai75an6 s1 Spares testis NHT Homo sapiens cDNA clone 1376626 3'	NAME TO THE			1.4	12167	6983	1865
Homo saniens outative hepatic transcription factor (WBSCR14) gene, complete cds	T			-	12143	8080	1839
ae30(02.r1 Gessler Wilms tumor Homo sapiens CUNA Gone IMAGE. 091333 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	EST HUMAN	AA496759.1		:	3	3	
gb:M22382 MITOCHONDRIAL MATRIX PROTEIN P1 PRECURSOR (HUMAN):	EST_HUMAN	AA496759.1	6,80E-02 A	<u>-</u>	12142		1839
Rables virus isolate boild glycopioterii gene, poruai was	NT	AF079906.1	6.90E-02 A	1.1		1	5100
265 PROTEASOME REGUENTON, GOODNIT OF THE PROTECTION OF THE PROTECT	SWISSPROT		6.90E-02 C	1.4	13954	8861	3724
26S PROTEASOME REGULATORY SUBJINITIES (NI ICI EAB ANTIGEN 2107)	SWISSPROT		6.90E-02 C	1.4	13953	86 <u>1</u>	3724
products	NT	4507968 NT	6.90E-02	1.3		6439	1311
Homo saplens regulator of Gz-selective protein signaling (ZGAP1) mkNA, and translated			_		10,00	٤	25
Homo saplens chromosome 21 segment HS21C010	NT		_	2	10780	5667	500
Homo sapiens chromosome 21 segment HSZTCU10	TN			1.8	10788	587	50.
Canis familiaris inducible nitric oxide synthase mkina, cumplete cus	NT			1.3	14331	9247	415
	EOT TOWN	WAA 1 2202' 1	7.0000-04	=		1	4047

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7 9382	Т	Г	I	Т	1	Т	8106		10000	8340	3		5298	5298	Т		П	7643		I	$\neg$	$\neg$	9599	9	2 2	2270	8950	9283	8692	6843		10272	8133	5723	6825
2 14463	T	Γ		1	14975	Т	13213	10543	15083		10400		10425	10424			12931		11529	15317		10570		1,000	14560	14550		14363		12022			13240	10839	12006
4.4			:   =	T	0.9	T	N 6	1.2			i	<u>.</u>	1.2	1.2		<b>O</b>	0.6	1.5	1.4	1.0	2.7	1.5	5,4	9		0.8	<u>.</u>	3.4	2.1	0.9		8.8	1.4	0.5	0.8
3.000	5.005-02	0.000	2.00E-03	5 80E-00	5.90E-02	5.90E-02	5.90E-02	5.90E-02	6.00E-02	6.00E-02	0.000	8 00E-00	6.00E-02	6.00E-02		6.00E-02	6.00E-02	6.00E-02	6.00E-02	6.10E-02	6.10Ε-02	6.10E-02	6.20E-02		6.20E-02	6.20⋶-02	6.20E-02	6.20E-02	6.30E-02	6.30E-02		6.40E-02	6.40E-02	6.40E-02	6.50E-02
B					2 AF006304.1		2 AF190269.1	2 AW934/19.1	ł_		1	AA372376.1	AA188730.1	AA188730.1		AB031289.1	6.00E-02 AW968848.1	AW816118.1		1			Q62191		AW951243.1		AF271235.1	AL1613/2.2	P37092	AF109905.1		69969Z3INI	6996923 NI	X94549.1	AE000764.1
	EST HUMAN	NT	N,	NI	NT	66 NT	NT	EOI TIONGA	ECT LINAN	EST_HUMAN		EST_HUMAN	EST HUMAN	EST_HUMAN		Z	ESI_HUMAN	EO TONION	NI LIMAN	2	2	Z	SWISSPROT		EST_HUMAN	EST_HUMAN	N,	12	SWIDSPROT	NT		N	N	2	N <sub>1</sub>
	wx24c02.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2544578 3	Thermotoga maritima section 87 of 136 of the complete genome	Populus trichocarpa CCoAOMT1 gene, exon 1 to exon 5	Thiobacilius ferrooxidans merc, mera genes and United	Saccharomyces cerevisiae protein tyrosine phosphiadase (r 17 3) golia; will protein	Homo saplens radixin (RUX) mkNA	Mus musculus p53 tumor suppressor gene, exon 10 and 11, panear was, and married of the musculus p53 tumor suppressor gene, exon 10 and 11, panear was, and married of the musculus p53 tumor suppressor gene, exon 10 and 11, panear was, and married of the musculus p53 tumor suppressor gene, exon 10 and 11, panear was, and married of the musculus p53 tumor suppressor gene, exon 10 and 11, panear was, and married of the musculus p53 tumor suppressor gene, exon 10 and 11, panear was, and married of the musculus p53 tumor suppressor gene, exon 10 and 11, panear was, and married of the musculus p53 tumor suppressor gene, exon 10 and 11, panear was, and married of the musculus p53 tumor suppressor gene, exon 10 and 11, panear was, and married of the musculus p53 tumor suppressor general	and the partial rate of th	RC1-DT0001-290100-012-e10 DT0001 Homo sapiens cDNA	Streptococcus pneumoniae parC, parE and transposase genes and ORF DNA	EST84266 Colon adenocardnoma IV Homo saplens cDNA 5' end similar to ussue-specific	protein	zp78c04.rl Stratagene HeLa cell so solve to number sphere con Similar to tissue-specific	II - 2 COTALS LL TO TOTALS COMP CIONE IMAGE: 626310 5	zp78c04,r1 Stratagene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:626310 5	Phe, tRNA-Met, ATPase subunit 6, and NADH dehydrogenase subunit 2	No spessfeldes corti mitochondral DNA, NADH dehydrogenase subunit 4, tRNA-Gin, tRNA-	FCT30002/ MACE researcences MAGJ Homo sapiens cDNA	MB3_ST020_12010D-025-d04_ST0220 Homo saplens cDNA	The matters madding searing 89 of 136 of the complete genome	Homo saries mBNA for KIAA1464 protein, partial cds	Archidonsis thaliana K+ Inward factifying channel protein (AtKC1) gene, complete cds	(RO52)	52 KD RO PROTEIN (SJOGREN SYNDROME TYPE A ANTIGEN (35-A)/ (NO(35-7))	EST363313 MAGE resequences, MAGA Homo sapiens CUIVA	EST363313 MAGE resequences, MAGA Homo sapietis CUIVA	(DNPI) mRNA, complete cds		Arabidonals thallana DNA chromosome 4, contig fragment No. 68	and unknown genes	smRNP, G7A, NG23, MutS homolog, CLCP, NG24, NG25, and NG26 genes, complete cds;	Mus musculus major histocompatibility locus class III regions Hsc70t gene, partial cds;	Intermisculus historia descaviase 5 (Hdac5), mRNA	A. Calibrate procured of percentage 5 (Hdac5), mRNA	Aquifex aeolicus section et or 109 01 tils complete generalisme pagene

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2239	5021	4506	3113	2912	2912	2447	1489		1037	1037	5108	4908	3375	2986	4777	3179	2618	4598	4540	4217	1510		3731	3033	3018	2659	2659	4471	4447	4447	4257
7345		9625	8262	8063	8063	7546	6616		6177	6177	_	_, [	8518	8138	9887	8328	7708	9712	9659	9341	6637		8888	8185	8170	7748	7748	9591	9567	9567	9382
	15194	14717	13366	13171	13170	12754	11787		11330	11329	15283	15095			14980	13441	12907	14804	14747	14425	11806		13960	13286	13270	12947	12946		14665	14664	14464
160.0	7.3	1.2	4.6	3.9	3.9	1.1	6.6		0.6	0.6	1.0	0.9	6.3	1.0	8.0	3.6	3.0	1.1	1.3	6.0	0.9				1.3	1.0	1.0	2.0	4.2	4.2	4.4
5.20E-02	5.30E-02	5.30E-02	5.30€-02	5.30E-02	5.30E-02	5.30E-02	5.30E-02		5.30E-02	5.30E-02	5.40E-02	5.40E-02	5.40E-02	5.40E-02	5.50E-02	5.50E-02	5.50E-02	5.60E-02	5.60E-02	5.60E-02	5.60E-02		5.70E-02		5.70E-02	5.70E-02	5.70E-02	5.80E-02	5.80E-02	5.80E-02	5.80E-02
5031908 NT	M80463.1	AJ011048.1	AJ276408.1	M58417.1	5.30E-02 M58417.1	5.30E-02 AJ276408.1	T94759.1		AW391248.1	AW391248.1	M96761.1	U53528.1	BE073468.1	AJ277468.1	AF161266.1	6755501	X97869.1	AA290599.1	AB013100.1	AJ390487.1	AF094455.1		5.70E-02 AW966791.1	AF119117.1	Al081644.1	AI708246.1	AI708246.1	AF096264.1	AI247505.1	AI247505.1	5.80E-02 AW051927.1
)8 NT	NT	NT	NT	NT	NT T	S	EST_HUMAN		EST_HUMAN	EST_HUMAN	NT	NT	EST_HUMAN	NT.	NT	)1 NT	NT	EST_HUMAN	NT	NT.	NT		EST_HUMAN	NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	EST_HUMAN	EST_HUMAN	EST_HUMAN
Homo sapiens meprin A, alpha (PABA peptide hydrolase) (MEP1A) mKNA	Mus musculus caudal type homeobox-1 (Cdx-1) gene, complete cds	1-	Pseudomonas putida ttgS gene	Drosophila melanogaster laminin B2 gene, complete cds	Drosophila melanogaster laminin B2 gene, complete cds	Pseudomonas putida ttgS gene	(HUMAN);	ye37f12.r1 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:119951 5' similar to gb:K01506 HLA CLASS II HISTOCOMPATIBILITY ANTIGEN, DP(1) ALPHA CHAIN	QV0-ST0213-021299-062-a09 ST0213 Homo sapiens cDNA	QV0-ST0213-021299-062-a09 ST0213 Homo sapiens cDNA	Mus musculus p-glycoprotein (mdrla) gene, exons 1 and 2	Xenopus laevis homeobox protein (Vox-1) mRNA, complete cds	11	Oryza sativa rbbi3-1 gene for putative Bowman Birk trypsin inhibitor	Murray Vailey encephalitis virus strain MVE-1-51, complete genome	Mus musculus SH3 domain protein 1B (Sh3d1B), mRNA	H.saplens gene encoding La autoantigen	zs45c01.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:700416 3	Lycopersicon esculentum LE-ACS6 mRNA tor 1-aminocyclopropane-1-carroxyrate synthase, complete cds	Candida albicans mitochondrial mRNA for NADH dehydrogenase (nde1 gene)	chloroplast product		EST378865 MAGE resequences, MAGI Homo sapiens cDNA	Homo sapiens dopamine transporter (SLC6A3) gene, complete cds	cu63b05.s1 NCI_CGAP_Br2 Homo saplens cDNA clone IMAGE:1632465 3 similar to WP:C37A2.2 CE08611;	as24f06.x1 Barstead aorta HPLR86 Homo sapiens cDNA cione IMAGE:2318147 3 Similar to gb:X14850_cds1 HISTONE H2A.X (HUMAN);	as2406.x1 Barstead aorta HPLRB6 Homo sapiens cDNA clone IMAGE:2318147 3 similar to gb:X14850_cds1 HISTONE H2A.X (HUMAN);	Gallus gallus tyrosine kinase JAK1 (JAK1) mRNA, complete cds	qh56f01.x1 Soares_fetal_liver_spieen_1NFLS_S1 Homo sapiens cDNA done IMAGE:1848697 3' similar to gb:M13142 COAGULATION FACTOR XI PRECURSOR (HUMAN);	qh56f01.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1848697 3' similar to gb:M13142 COAGULATION FACTOR XI PRECURSOR (HUMAN);	wz24c02.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2544578 3'

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1270	722	4940	5076	4572	3172	2227		480	328	327	4733	4733	3543	3543	3522		3251	413	218		4890	3629	3295	2788	1947	1186	474	3644	3610	2313	4633	4490	4490	4181
6399	5876	10046	10174	9690	8321	7334			5509	5509		_	8684	8684	8663		$\neg$	╗	5410		П	-	1	П	7064		╗	8783	8749	7416		$\neg$	П	9307
	11016	15118	15254		13435	12546		10771	10636	10636			13785	13784			13504					13862		11274	12258	11474	10766		13843		14843	14704	14703	14386
1.1	0.9	0.8	1.3	1.7	2.1	0.7		2.6	0.7	1.5	1.9	1.9	1.2	1.2	0.9		1.9	1.9	9.9		9.0	5.5	1.2	0.6	1.5	2.4	0.7	5.8	3.6	1.0	1.0	2.4	2.4	3.4
4.60E-02	4.60E-02	4.70E-02	4.80E-02	4.80E-02	4.80E-02	4.80E-02		4.80E-02	4.80E-02	4.80E-02	4.90E-02	4.90E-02	4.90E-02	4.90E-02	4.90E-02		4.90E-02	4.90E-02	4.90E-02		5.00E-02	5.00E-02	5.00E-02	5.00E-02	5.00E-02	5.00E-02	5.00E-02	5.10E-02	5.10E-02	5.10E-02	5.20E-02	5.20E-02	5.20E-02	5.20E-02
AI014255.1	AE000445.1	6981261 NT	U91914.1	Z54280.1	4.80E-02 X17144.1	4.80E-02 W51983.1		AF003100.1		D16471.1	AW167821.1	AW167821.1	4.80E-02 AA400914.1	4.90E-02   AA400914.1	AA188940.1		4.90E-02 P54258	D26607.1	M14230.1		AF188530.1	U12769.2	7305610 NT	U72742.1	P02810	Z99104.1	AF098004.1	AA652267.1	AF094269.1	AL134071.1	L33246.1	X58743.1	X58743.1	U07132.1
EST_HUMAN	N	NT	3	NT	NT T	EST_HUMAN	, ,	3	Z	Z	EST_HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN	EST HUMAN		SWISSPROT	NT NT	Z		N	NT	ONT	NT	SWISSPROT	N <sub>T</sub>	NT	EST_HUMAN	3	EST_HUMAN	NT	NT	T	NT
TR:P90533 P90533 LIMA ;contains element LTR1 repetitive element;	Eschenchia coli K-12 MGT655 secuon 335 oi 400 oi die coliptete genorite	Raftus norvegicus Nestin (Nes), mKNA	Streptococcus constellatus D-alanine:D-alanine ilgase gene, parual cos	S.scrofa gene for skeletal muscle ryanodine receptor	Tetrahymena rostrata histone H3li and histone H4li intergenic UNA	(HUMAN);	IMAGE:325611 3' similar to gb:M30938 LUPUS KU AUTOANTIGEN PROTEIN P86	Arabidopsis thaliana AP2 domain containing protein KAP2./ mkwa, paruai cus	Human mRNA, Xq terminal portion	Human mRNA, Xq terminal portion	xg56g10.x1 NCI_CGAP_Ut4 Homo sapiens cDNA clone IMAGE:2632386 3	xg56g10.x1 NCI_CGAP_Ut4 Homo sapiens cDNA clone IMAGE:2632386 3	zi78a03.s1 Soares testis NHT Homo sapiens CUNA Cone IMAGE:/204203	2/78a03.s1 Soares testis NHT Homo sapiens CUNA Clone IMAGE: / 20420 3	similar to contains Atu repetitive element;contains element MSR1 repetitive element :	zq48a12.s1 Stratagene hNT neuron (#937233) Homo saplens cDNA clone IMAGE:632926 3'	ATROPHIN-1 (DENTATORUBRAL-PALLIDOLUYSIAN ATROPHY PROTEIN)	Homo sapiens endothelial nitric oxide synthase gene, complete cas	COCIS	Chicken 28-kDa vitamin D-dependent calcium-binding protein (CaBP-28) mRNA, complete	Homo sapiens ubiquitous tetratricopeptide containing protein Roxan mkna, paruai cos	Antheraea pernyl period clock protein homolog mRNA, complete cds	Mus musculus Unc-51 like kinase 2 (C. elegans) (Ulk2), mKNA	Oryctolagus cuniculus UDP-glucuronosyltransferase (UG12B13) mRNA, complete cos	SALIVARY ACIDIC PROLINE-RICH PHOSPHOPRO I EIN 1/2 PRECURSOR (PRO-S) (PRO-S) (PROTEIN A/PROTEIN C) (CONTAINS: PEPTIDE P-C)	Bacilius subtilis complete genome (section 1 of 21): from 1 to 213080	Mus musculus fatty acid amide hydrolase gene, exon 10	ns69d01.s1 NCI_CGAP_P/z Homo sapiens curia cione invase: i roccos sililitar to contains element PTR5 repetitive element :	HIV-1 Isolate 2001-4-37 from USA, envelope glycoprotein (env) gene, parual cus	DKFZp547D073_r1 547 (synonym: hfbr1) Homo sapiens cDNA clone DKFZp547D073 5'	Drosophila melanogaster filament protein homolog (sep1) gene, complete cos	H.sapiens HCK gene for tyrosine kinase (PTK), exon 12	H.sapiens HCK gene for tyrosine kinase (PTK), exon 12	131

							OLD William to Company of the Compan
			•	3			M24f03.x1 NCI_CGAP_N011 Homo sapietis CUNA Cione INVACELECCTUCE CONTROL CONTRO
2438	7537	12744	0.9	4.60E-02	4.60E-02 AW236023.1	EST_HUMAN	OWN.GRET TOWARM GIEGOS OF NOTICE CONTROL OF STATE OF STAT
2777	5457	10584	0.5	4.60E-02	4.60E-02 BE153583.1	EST_HUMAN	PMO-HT0339-251189-003-g05 H 1 0339 Homo sapiens CDNA
2977	8128	13235	1.0	4.60E-02	4.60E-02 BE153583.1	EST_HUMAN	PM0-HT0339-251199-003-g05 HT0339 Floring Sapietis CONA
3451	8128	13235	1.0	4.60E-02	4.60E-02 BE153583.1	EST HUMAN	PMD-H10339-251189-003-g00 F110339 F0110 Saparis CONS
4033	9161		1.2	4.60E-02	4.60E-02 AF220365.1	Z	MUS MUSCUIUS NUCIBORAT KINA IIBIIGASE III'GU (duxz.) geire, wiiipiw wo
439	5605	10739	0.6	4.50E-02 P22448	P22448	SWISSPROI	THE INCIC ACID AFTOR DELY INVESTIGATION (1975/03/16) VP35 page complete cds
1200	6332	11487	0.9	4.50E-02	4.50E-02 AF005730.1	Z	Marburg Virus strain MVS.Asincaroniamissourily 1910 Committee Complete Cols
1200	6332	11488	0.9	4.50E-02	4.50E-02 AF005730.1	Z	Marburg virus strain wis Africar Johannies burg is a roccount of genre, some of the strain wish and the st
	1200	4000	3	LA SUE US   DESTRE	D20180	SWISSPROT	HEDATOCYTE NUCLEAR TACTOR GREEN (INTIGO)

	011.001.101	741047	0.50E-02	ن.:	11010	040	1322
FAS ANTIGEN LIGAND	SWISSPROT	D41047	2005.02	3 !	Τ	Т	3200
Homo sapiens mRNA for KIAA1471 protein, partial cds	TN	AB040904.1	4 00E-02	27		Т	3
Mus musculus uroporphyrinogen III synthase mkNA, complete cas	NT	U18867.2	4.00E-02	1.4	13071	$\neg$	2816
OV1-NN0012-180400-164-106 NN0012 FIGHING Sapients CURN	EST_HUMAN	AW893484.1	4.10E-02	7.4		_	4372
SUTTI / SU/FT NIT MIGC 1/ DOING Septem SUFFICION CONTROL CONTR	EST HUMAN	BE297236.1	4.10E-02	0.9	14059	8961	3824
001177907F1 NITE MICC 17 Homo capitans of NA clone IMAGE:3533353 5	EST HUMAN	BE297236.1	4.10E-02	0.9	14058	8961	3824
Conditional Hill MCC 47 Home september CONA close IMAGE 3533353 5	2	AEUUZ33U.Z	4.10E-02	1.0	12933	7732	2643
Obligate History for Section 60 of 85 of the complete genome	NT -	D63484.1	4.20E-02	==		1_	5172
Liman mBNA for KIAA0150 cana parial cds	17	200101			10070	Т	3117
gb:M35718 FIBROBLAST GROWTH FACTOR RECEPTOR BFR-2 PRECURSOR (HUMAN);	EST HUMAN	A1493472.1	4 20E-02	9	12370		
CONTRACT COAD BENCE Homo seniors cDNA clone IMAGE:2019787 3' similar to	100	744000010.	40-307.4	0.0	1100	0020	8/8
element:	EST HUMAN	AW003645.1	4 20F-02	) (2)	11100		070
TR:Q63291 Q63291 L1 RETROPOSON, ORF2 MRNA ;contains L1.13 L1 L1 repetitive							
wx34g01.x1 NCI_CGAP_Pit1 Homo sapiens cDNA clone IMAGE:2545584 3' similar to						_	
Pea P4 organ specific gene	NT	X51594.1	4,30E-02	0.9	15311	╗	5141
HSPD01704 HM1 Homo sapiens curva cione NOTAVAILUTO	EST_HUMAN	F17181.2	4.30€-02	3.5	14545	П	4334
Homo sapiens promyelocytic leukemia zinc linger protein (r.c.r.) gene, compress comp		AF060568.1	4.30E-02	1.1		$\neg$	3609
Homo sapiens chromosome 21 seginent nozitorio	N	AL163210.2		7.0	13633	8526	3383
Contains Aud repended of Company LICOTOMO	ESI_HOMAN	167911.1	4.30E-02	1.2		6814	1690
yczodusia i sugarajana (war (war ter) roma arbana ara							
- 200 Clore Character (#037024) Homo sanlers cDNA clone (MAGE:81976 3' similar to		MJ242005.1	4.405-02	3.1		9751	4637
Ovis aries CCAAT-enhancer binding protein epsilon gene	Z	A 1222680 4	1000	3	17.00	Ş	132.
and S171 gene, partial cds	<u> </u>	AF109907.1	4.40E-02	1	14736	9848	4527
Homo sapiens S164 gene, partial cds; PS1 and hypothetical protein genes, complete cds;							
	N,	AF109907.1	4.40E-02	:	14735	9646	4527
Homo sapiens S164 gene, partial cds; PS1 and hypothetical protein genes, complete cds.							
	NT	AF159160.1	4.40E-02	1.9	13823	8727	3588
Methanobacterium formicicum fdhC gene, complete cas	NT	M64798.1	4.40E-02	1.0	13558	8448	3303
QV2-PT0012-010300-070-g02 PT0012 Homo sapiens CUNA	EST_HUMAN	AW875475.1	4.40E-02	1.3	12746	_	2440
HYPOTHETICAL PROTEIN (ORF 2280)	SWISSPROT	P31568	4.40E-02	2.2		7	2049
Drosophila metanogaster extradenticle (EXU) mknA, complete cus	NT	L19295.1	4.40E-02	1.3	11302	6148	1008
Homo sapiens chromosome 21 segment rioz i curo	N	AL163278.2	4.50E-02	3.8	13896	8801	3662
Xylella fastidiosa, section 110 of 229 of the complete genome	N,	AE003964.1	4.50E-02	0.7	12382	П	2063
HEPATOCYTE NUCLEAR FACTOR 3-BETA (HNY-38)	SWISSPROT	P32182	4.50E-02	1.3	12067	П	1763
Marburg virus strain WS.Amca/Jonannesourg/19/3/O/Collif v r 33 gene, complete cost	Z	AF005730.1	4.50E-02	0.9	11488	6332	1200
Marburg virus strain W.S.Atrica/Jonannesburg/19/5/Octoin virus gene, complete cde	ZT	AF005730.1	4.50E-02	0.9	11487	6332	1200
RETINOIC ACID RECEIVIOR BEITA (TAX SEC. 3)	SWISSPROT	P22448		0.6	10739	5605	439
Mus musculus nucleolar RNA nelicase livou (uuxz i) geile, cui ipiere cos	Z	AF220365.1	4.60E-02	1.2		9161	4033
PM0-H10339-251189-003-g05 H10339 H0010 Sapietis CDVA	EST HUMAN	BE153583.1	4.60E-02	1.0	13235	8128	3451
PM0-H10339-251199-003-good notice september 2010		BE153583.1	4.60E-02	1.0	13235	8128	2977
PMU-TI USSB-201 BB-000-B03 (110333) Homo papiens cDNA	EST HUMAN	BE153583.1	4.60E-02	0.5	10584	5457	2777
DIVIDENTATION OF HITO 230 Homo sanians CONA	EG LICINON	AVVZ30UZ3. I	11 .	0.9	12/44	7537	2438
SWIGSES HIMAN 012849 G-RICH SEQUENCE FACTOR-1;	TOT LIMAN	A	-		<u> </u>		
1 NCI CGAB Kid11 Homo sanians cDNA clone IMAGE:2694653 3' similar to	7						

LA PROTEIN HOMOGOO (= :::::	SWISSPROI	3 40E-02 026457	3 40E-0	Ī	Ī	9017	titt.
M.MUSCUIUS S-BINGEN BOTTE IN A RIBONUCLEOPROTEIN) (LA AUTOANTIGEN HOMOLOG)	Z,	2 X59799.1	3.40E-02		٦	Т	3040
in Courties Continen dens promoter region	EST TOWN	2 AW794952.1	3.40E-02	3.2	٦	Т	300
BCS.1 IM0015-210200-021-A10 UM0015 Homo saplens cDNA	NOT LINAN	_	3.40E-02	1.3	T	Т	3365
contains MER29 repetitive element	EST_HUMAN	_	3.40E-02	0.8	12652	7445	2242
yc20e06.r1 Stratagene lung (#937210) Homo sapiens cunk close living content in the content in th	1	AASSOTAL.	3.401-02	0.6	12126	6936	1817
2175/08.s1 Soares lestis NHT Homo sapiens cDNA clone IMAGE:728199 3	EST HUMAN		3.40E-02			6175	1035
to SW:C211_HUMAN P53801 PUTATIVE SURFACE GLICON TO THE STATE OF THE ST							
xv26d07.x1 Soares_NFL_T_GBC_S1 Homo sapiens CUNA Gone IMAGE. 2010RF1		747 144	3.50E-02	0.8		10249	5154
HYPOTHETICAL 80.7 KD PROTEIN IN SOUT-CPAZ INTERGENIO NEGE 2814253 3	SWISSPROT		3.501-02	1.0		9655	4536
(CYSTEINE LYASE)  EST370539 MAGE resequences, MAGE Homo sapiens cDNA	SWISSPROT FST HUMAN		3.50E-02	1.4	14427	9344	4220
CYSTATHIONINE BETA-LYASE PRECURSON (CGL) (CL.)			0.000-04	2.0	14330	9246	4120
Thermotoga maritima section 85 of 136 of the Compress Serion (CB) / RETA-CYSTATHIONASE)	N.T		3.000	0.9	13897	8802	3663
G.gorilla beta-globin gene	NT.		3.500.02	3.5		8416	3271
alpha chain, V region (HT:3229)	EST HUMAN	T20124 1	3 505-03				
EST69951 Human White blood cells Homo saplens cDNA 5' end similar to 1-cell receptor,	EST HUMAN	AW772365.1	3.50E-02	3.5		6320	1188
TOOR VI NC! CGAP KId11 Home saplens cDNA clone IMAGE:3033422 3	2	AF253417.1	3.50E-02	0.5	11290	6135	8
Long saniens microsomal epoxide hydrolase (EPHX1) gene, complete cds	Z	U09506.1	3.50E-02	1.2	11185	8	877
10[10q26.3] of Homo sapiens  Recording melanoraster tiggrin mRNA, complete cds	N,	AL096810.1	3.60E-02	0.8	15305	10230	5125
10[10q26.3] or nomic septems  Homo sapiens genomic region containing hypervariable minisatellites chromosome	NT	AL096806.1	3.60E-02	0.8	13845	8751	3612
Homo sapiens genomic region containing Hyper variable				6.9	13838	8743	3604
member 3 (Konina J), invivo  H.vulgare Ss1 gene for sucrose synthase  H.vulgare Ss1 gene for sucrose synthase	N N	6680541 NT	3.70E-02	=		8550	3408
issium large conductance			3.700.02	0.8	13265	2 8 8 8 8	3012
EOMESODERMIN	SWISSPROT	D79944		0.9	12831	7629	2533
Homo sapiens mRNA for KIAA0718 protein, partial cos		AB048061 1		2.3	12514	7299	2180
spilce products, partial cas wr85e08.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2494502 3'	NT HUMAN	L14561.1		0.9	11660	6494 	1366
Homo sapiens plasma membrane caldum Al rase isvisiii V		0.00	3.705-02	ē	11278	6121	976
LAMININ ALPHA-1 CHAIN PRECURSOR (LAMININ A CHAIN)	NT	AJ229042.1		1.3		6694	1568
Lorno saniens 959 kb conlig between AML1 and CBR1 on chromosome 21q22, segment 2/3		00000	3.905-02	1.0	15281	10201	5105
		TNEFUNCE	3.905-02	1.0	15280	10201	5105
netical protein PRO1163 (		4506862 NT	3.90€-02	0.8		7758	2671
Homo saplens succinate denydrogeniase complex, comments			0.00	=	12223	7035	1918
M.musculus DNA for desmin-binding regiment Description integral membrane protein	NT		3 90E-02 AJ403386.1		2203		1
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2449	2385	3866	3685	3518	2541	1606	4767	1931	1850	1501	1283	1239	4658	4124	3653	2809	2072	1734	1110	1110	127	4366	4086	2448	2448	2038	1705	1621	1151	368	5010
7548	7942	9002	8823	8659	7637	6733	9878	7048	6968	6627	6413	6368	9770	9250	8792	5323	7184	6857	6247	6247	5323		6747	7547	7547	7151	6828	6747	$\Box$		10112
12757	12689			13766	12837		14972		12153		11575		14865		13886	10455		12035	11400	11399	10455	14579	11915	12756	12755			11915	11439		15182
0.5	1.1	1.2	1.0	<u>:</u>	=	1.0	1.0	:	1.4	1.0	1.3	0.7	2.9	12.4	1.1	1.2	0.9	1.1	4.3	4.3	==	1.9	2.2	1.1	1.1	1.0	1.3	1.1	4.5	4.5	1.3
2.90E-02	2.90E-02	3.00E-02	3.00€-02	3.00E-02	3.00E-02	3.00E-02	3.10E-02	3.10E-02	3.10E-02	3.10E-02	3.10E-02	3.10E-02	3.20E-02	3.20E-02	3.20E-02	3.20E-02	3.20E-02	3.20E-02	3.20E-02	3.20E-02	3.20E-02	3.30€-02	3.30E-02	3.30E-02	3.30E-02	3.30€-02	3.30E-02	3.30E-02	3.30E-02	3.30E-02	3.40E-02
4502272 NT	AF228703.1	AA364003.1	AW820223.1	3.00E-02 M94176.1	3.00E-02 AA402242.1	AF187125.1	AW835313.1	3.10E-02 Z50097.1	6671564	AF200465.1	P18845	4503416	AF114182.1	X94768.1	AL163203.2	AJ002005.1	P28955	AF128894.1	AF096275.1	AF096275.1	AJ002005.1	? 6755862	? AF110763.1	? T02847.1	T02847.1	R09112.1	AE000700.1	2 AF110763.1	_		2 AJ012469.1
NT	NT	EST_HUMAN	EST_HUMAN	NT	EST HUMAN	NT.	EST HUMAN		TNT	Z	SWISSPROT	8 NT	NT	N T	NT	NT	SWISSPROT	NT	NT	T	NI	2 NT	NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	NT.		EST_HUMAN	Z
Homo sapiens ATPase, Na+/K+ transporting, alpha 3 polypeptide (ATP1A3), mRNA	Homo sapiens mitochondrial glutathione reductase and cytosolic glutathione reductase (GRD1) gene, complete cds, alternatively spliced		QV2-ST0296-150200-040-e09 ST0296 Homo sapiens cDNA	Saccharomyces cerevisiae stem-loop mulation supressor SSL2 gene, complete cds	zl65h03.r1 Soares_testis_NHT Homo saplens cDNA clone IMAGE:727253 5	Pityokteines minutus cytochrome oxidase i gene, partial cds; mitochondrial gene for mitochondrial product	QV0-LT0014-250200-129-h09 LT0014 Homo saplens cDNA	Drosophila melanogaster mRNA for headcase protein	Mus musculus adaptor-related protein complex AP-3, delta subunit (Ap3d), mRNA	Homo sapiens coxsacklevirus and adenovirus receptor (CXADR) gene, complete cds; and ANA gene, partial cds	NEURONAL ACETYLCHOLINE RECEPTOR PROTEIN, ALPHA-3 CHAIN PRECURSOR (GF-ALPHA-3)	Homo sapiens dual specificity phosphatase 4 (DUSP4) mRNA	Saxifraga nidifica maturase (matK) gene, chloroplast gene encoding chloroplast protein, partial cds	H.sapiens RP3 gene (XLRP gene 3)	Homo saplens chromosome 21 segment HS21C003	Oryctolagus cuniculus gene encoding ileal sodium-dependent bile acid transporter	LARGE TEGUMENT PROTEIN	Homo sapiens telomerase reverse transcriptase (TERT) gene, exons 7-16 and complete cds	Drosophlla melanogaster heat shock protein 68 (hsp68) gene, hsp68d allele, complete cds	Drosophila meianogaster heat shock protein 68 (hsp68) gene, hsp68d allele, complete cds	Oryctolagus cuniculus gene encoding lieal sodium-dependent bile acid transporter	Mus musculus tumor rejection antigen gp96 (Tra1), mRNA	Homo sapiens skeletal muscle LIM-protein 1 (FHL1) gene, complete cds	FB12A2 Fetal brain, Stratagene Homo sapiens cDNA clone FB12A2 3'end	FB12A2 Fetal brain, Stratagene Homo sapiens cDNA done FB12A2 3'end	yf25c09.r1 Soares fetal liver spieen 1NFLS Homo sapiens cDNA clone IMAGE:127888 5'	Aquifex aeolicus section 32 of 109 of the complete genome	Homo sapiens skeletal muscle LIM-protein 1 (FHL1) gene, complete cds	Cricetulus griseus CYP2A17 mRNA for cytochrome P450 2A17, complete cds	× I	Caenorhabditis elegans mRNA for DYS-1 protein, partial

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II codesse mBNA for fuccyanthin chlorophyll a/c binding protein. Fcp1	2	X00607.1	2.501-02	4.4	13184	П	2926	
	7	U125/1.1	2.506-02	0.9		7819	2735	_
Dotter properties rebubling 24 mRNA complete ods	NT I	108000	2.501-02	1.6	12310	7108	1992	
Mile missuine procellegen bre IV sinhs 3 (Col4s3), mRNA		Al ( 30 100 . 1	20-300.2	1.5	10807	Г	521	_
on 25th 6 v5 NCI CGAP 1 Lt5 Homo sablens cDNA clone IMAGE: 1557827 5'	EST HIMAN	A1793130.1	2.505-02	1.5	10806	1	521	-
SW:Y089 HUMAN Q15041 HYPOTHETICAL PROTEIN KIAA0069;	EST_HUMAN	AW241154.1	2.60E-02	2.1	15199	$\Gamma_{\sim}$	5025	r
xa52b04.x1 NCI_CGAP_Sar4 Homo saplens cDNA clone IMAGE:2570383 3' similar to						_	100	_
Deinococcus radiodurans R1 section 151 of 229 of the complete chromosome	NT	AE002014.1	2.60E-02	1.7	15169	Т	499B	_
Chicken dorsalin-1 mRNA, complete cds	NT	L12032.1	2.60E-02	3.7	15013	╗	4811	
x/68/09.x1 Scares NFL T GBC ST Homo sapiens CUNA cone invage.2002-409 3	EST_HUMAN	AW181945.1	2.60E-02	1.1		$\neg$	3883	_
Citrus unshiu ADP-glucose pyrophosphorylase small subunit (agpS) mRNA, complete ods		AF184597.1	2.60E-02	1.0	13538		3285	
genes	Ŋ	AF109906.1	2.60E-02	1.6		8036	2885	
Mus musculus MHC class III región RD gene, partial cas; Bf, Cz, GsA, NGZZ, Gs, FIST / V, HSP70, HSC70t, and smRNP genes, complete cds; G7A gene, partial cds; and unknown			-					<del></del> -
Mus musculus nistigine non calcium binging protein (ritc), ilitary	NT	6754241 NT	2.60E-02	1.0	12628	7420	2317	
Mus musculus histidine non calcium binging protein (cric), mixtus	NT	6754241	2.60E-02	1.0	12627	7420	2317	
ab02b02.s1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:839595 3'	EST_HUMAN	AA490021.1	2.60E-02	1.1	12625	7418	2315	
1L3-CT0219-280100-062-C09 CT0218 Floring Sapiens CDNA	EST HUMAN	2.60E-02 AW850515.1	2.60E-02	1.0			1345	
Homo sapiens chromosome 21 segment nozi cuoz	NT	AL163282.2	2.60E-02	1.1	10837	5721	559	_
wb18e04.x1 NCI_CGAP_GC6 Romo sapiens culva Golie Image.2300040 3	EST HUMAN	AI825422.1	2.70E-02	1.0	15353		5194	
wb18e04.x1 NCL CGAP GC6 Homo sapiens CDNA Gone IMAGE:2306046 3	EST_HUMAN	AI825422.1	2.70E-02	1.0	15352	10285	5194	
5	EST_HUMAN	N47258.1	2.70E-02	2.1	14316	9233	4107	
yy86h12.r1 Soares_multiple_sclerosis_2NbHMSP Homo sapiens cDNA clone IMAGE:280487			7. OF OF	:	14010	007g	4107	_
yy86h12.r1 Soares_multiple_sclerosis_2NbHMSP Homo sapiens cDNA cione imagezooqo/ 5	EST HUMAN	N47258.1	20-∃02 20-∃02	٠ •	14245	$\neg \neg$		
Arabidopsis thaliana DNA chromosome 4, contig fragment No. 5	NT	1.2		2.0	13635	Т	3385	_
J O 76 "	NT	U66059.1	2.70E-02	. <del>.</del>	11774	6600	1473	
Rattus norvegicus microtubule-associated protein acu (mapy), im ver	Z	8393751	2.80E-02	1.0		9338	4214	
Homo sapiens reunal rascin (rocky) gene, exon 2	T		1	1.3	13579	8465	3321	
Homo sapiens reunal rascin (Focial) garie, exor 4	ZT		2.80E-02	1.3	13578	8465	3321	
EST382234 MAGE resequences, MAGN north september 20140	EST_HUMAN		2.80E-02	0.9			553	_
S.vulgare pepC gene for PEP carboxylase			2.90E-02	1.3	15126	10055	4950	
S.vulgare pepC gene for PEP carboxylase	NT.	X65137.1	2.90E-02	1.3	15125	_1	4950	_
yu07e10.r1 Soares fetal liver spieen 1NFLS Homo sapiens cDNA done IMAGE:233130 5	EST_HUMAN	H72805.1	2.90E-02	0.9	14087	8987	3851	
								l

genes, complete cas	N	U72073.1	2.10E-02 U72073.1	2.5	11530	6371	1242
Bacilius subtilis cotkLM duster, Cotk (cotk), CotL (cotL), and spore coat protein CotM (cotM)							
	NT	AF029726.1	2.10E-02	2.7		5607	441
S. cerevisiae chromosome IV reading frame UKF YUL2450	N <sub>1</sub>	274293.1	2.20E-02	1.0	14081	8980	3844
PMO-BT0340-170100-004-503 BT0340 Homo sapiens CDNA	EST_HUMAN	2.20E-02 AW601317.1	2.20E-02	1.1	14009	8916	3779
Infectious bursal disease virus segment is strain IL4 VPT gene, complete cus		2.20E-02  AF083094.1	2.20E-02	3.3		8734	3595
nn24a04.s1 NCI_CGAP_Gas1 Homo sapiens cDNA clone IMAGE. 1004/62 3	EST HUMAN	AA577785.1	2.20E-02	1.9		8531	3388
		AF109633.1	2.20E-02	0.5	12980	7952	2695
S.pneumoniae pcpA gene and open reading frames	N	282001.1	1	0.6	12284	7083	1968
Homo sapiens chromodomain helicase DNA binding protein 2 (CHUZ) mkNA	NT	4557448	2.20E-02	0.6		6836	1713
mitochondrial protein, complete cds	NT .	AF018267.1	2.20E-02	1.1	11014	5874	720
QZSSQUAS NCL CGAT Nu i i fluito septetis cons cone introductations of	EST HUMAN	AI/931//.1	2.30E-02	1.0	15124	10053	4948
QZ35003.X5 NCI_CGAP_KIQ11 Homo sapiens cDNA clone IMAGE.2020000 3	EST_HUMAN	AI793177.1		1.6	15123	10053	4948
MR0-HT0159-151099-001-e03 H10159 Homo sapiens CUNA	EST HUMAN	BE143150.1	1	1.8	14687	9592	4472
Mycobacterium tuberculosis H37Rv complete genome; segment 136/162		Z83867.1	2.30E-02	5.2	14613	9523	4402
xs25d08.x1 NCI_CGAP_Ut2 Homo sapiens cDNA clone IMAGE:2770671 3	EST_HUMAN	AW593693.1	2.30E-02	0.9	14582	10300	4348
xs25d08.x1 NCI_CGAP_UZ Homo sapiens cDNA clone IMAGE:2770671 3	EST_HUMAN	AW593693.1	2.30E-02	0.9	14561	10300	4348
CM4-NN0080-290400-160-b04 NN0080 Homo sapiens cDNA	EST_HUMAN	AW899107.1	2.30E-02	1.3	14534	9446	4323
Gallus gallus connexin 45.6 (Cx45.6) gene, complete cds	TN	124799.1	2.30€-02	1.2	14268	100 120 120 120 120 120 120 120 120 120	4057
Gallus gallus connexin 45.6 (Cx45.6) gene, complete cds	TN	L24799.1	2.30E-02	1.2	14267	9 2 2	4057
HSAAACADH P, Human foetal Brain Whole tissue Homo sapiens cDNA	NAWOH_ISE	Z20377.1	_	4.8	13861	8767	3628
S.cerevisiae chromosome IV reading frame ORF YDL245c	NT	Z74293.1		0.9	12613	7405	2302
4 Homo sapiens mammary tumor-associated protein INT6 (INT6) gene, exch 4	NT	U94165.1	2.30E-02	2.9		6962	12 140 140
za84g08.r1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:299294 3	EST_HUMAN	W05340.1	2.30E-02	2.1		6948	1829
	NT	AL161595.2	2.40E-02	11.5		10215	5119
1 -	SWISSPROT	P01901	2.40E-02	1.4	14632	9540	4420
	SWISSPROT	P01901	2.40E-02	1.4	14631	9540	4420
Lungmophila Calcium-billuling 23 ND4 (1 Cor. 23) Process at SHA CHAIN PRECLIRSOR (H.	2	J05110.1	2.40E-02	1.4	14480	9397	4272
2K(B))	SWISSPROT	P01901		0.8	12317	7932	1998
H-2 CLASS   HISTOCOMPATIBILITY ANTIGEN, K-B ALPHA CHAIN PRECURSOR (H-	SWISSPROT	P01901	2.40E-02	0.8	12316	7932	1998
H-2 CLASS I HISTOCOMPATIBILITY ANTIGEN, K-B ALPHA CHAIN PRECURSOR (H-							
yr75f11.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA cione IMAGE:211149 5'	EST_HUMAN	H65884.1	2.40E-02	0.7	11876	6706	1580
kc72c07.x1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:2070156 3	EST_HUMAN				10488	5361	167
ht36h08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2934015 3	EST_HUMAN			5.1	14320	9237	4111
hx85d10.x1 NCI_CGAP_Kid11 Homo sapiens cDNA cione image:3154011 3 silinai no gb:M16838 HOMEOBOX PROTEIN HOX-C6 (HUMAN);	EST_HUMAN	BE464190.1	2.50E-02	1.0	13625	8519	3376
The state of the s							

Arabidopsis thailana DNA chromosome Arabidopsis thailana DNA chromosome nw04f05.s1 NCI CGAP SS1 Homo sap	NT HIMAN		1.90E-02	0.9		8 7557	2458
Arabidopsis thaliana DNA chromosome 4, contig fragment No. 50	Z		1 DNE 73		1	1	
Homo sapiens chromosome 21 seginalit risz i Circ						Г	1990
	Z		1.90E-02	0.9	Т	Т	9 3
Homo sapiens chicalona to segment Legatoria	Z	AL163303.2	1.90E-02	0.9	٦	П	1993
EMIT I OF INCORPORATE 21 Segmen	SWISSPRO	P18488	1.90E-02	0.8		П	1599
	EST_HUMAN	AA572764.1		0.6	10964	5833	678
nf19a07.s1 NCI_CGAP_Pr1 Homo saple		200000	2.000.02	1:0	15262	10183	5085
	EST HUMAN	AA456538.1	2.005.02	100	1		5079
Homo sapiens chromosome 21 segment HS21C078	N <sub>1</sub>	AI 163078 2	3 005 03		T		2765
P.vulgaris hydroxyproline-rich glycoprotein (HRGP) mknA, 3' end	N <sub>1</sub>	M18095.1	2 00E-02	1 6	Т	7	2000
Arabidopsis thaliana C2H2 zinc linger protein F2F illruvo, willpions was	N <sub>1</sub>	AF095588.1	2.00E-02	22		Т	310
(semaphorin) 6B (Sema6b), mRNA	NT	7305474	2.00E-02	i.		8255	3105
Mus musculus sema domain, transmembrane domain (TM), and cytopiasmic comain,				5		/65/	2/68
Arabidopsis thaliana DNA chromosome 4, contig fragment No. 32		AL 161532.2	_1.	0.00	12133	Т	1830
Homo sapiens hypothetical protein FLJ10486 (FLJ10486), mRNA	NT	8922453	2000	2.0	Τ	Т	1830
Homo sapiens hypothetical protein FLJ10486 (FLJ10486), mknx	NT	8922453 NT	2005-02			Т	1101
Homo sapiens hypothetical protein FLJ10379 (FLJ10379), mkrva	Z	8922391 NT	2.00E-02	0 0	11471	Т	101
Homo sapiens hypothetical protein FLJ10378 (FLJ10378). III VAT	Z	8922391 NT		O S	11.77	Т	3
1[1p36.33] of Homo sapiens	NT	AL096805.1	2.00E-02	1.0	11362	6209	1071
ivide investige control recipio containing hypervariable minisatellites chromosome	2	6/53635	2.00E-02	0.6	11082	5933	781
	ESI TUMMIN	AA456538.1		0.9	10609		292
	]Z	6753635		0.9	10572	5447	259
	EST HOMAN	AW895565.1	_	2.7	10328	5227	18
		AI823432.1	_	0.9	14918	9826	4714
n. bladiaria iliusci cicape Kid11 Homo sapiens cDNA clone iMAGE:2384528 3'	2	Y08501.1		4.7	14820	9725	4611
IMAGE:2371509 3'	EST_HUMAN	AI768127.1		1.0	14565	9473	4351
genes  genes  Genes  NSE FR SW OT PA P S1 Homo sapiens cDNA clone	NT	U44914.1	2.10E-02	1.6	14554	9465	4342
Borrelia burgdorferi plasmid cp32-2, erpC and erpD genes, complete cds; and unknown		F1-1500.1	2.105-02	6.9	14251	9166	4038
	NT 1.1011011	774203 1			13779	8676	3535
	EST HUMAN	AA61971 1					
	EST_HUMAN	BE072546.1		0.9	12309	7105	3110
L	EST HUMAN	BE072546.1	2.10E-02	0.9	12308	7105	3110
Ĺ	EST HUMAN		2.10E-02	1.4	11062	5915	2785
Tegula aureouncia major acrosoma prose	NT	=		1.0	12226	7037	1920
partial cds	3	AF204395.1	2.10E-02 /	0.7	11658	<b>9</b> 492	1365
Mus musculus macrophage migration inhibitory factor (MIF) gene, 5' flanking region and				e.	1100/	648 <u>2</u>	1365
partial cds	4	AF204395 1	3 105 03 1				
Muse muse this macrophage migration inhibitory factor (MIF) gene, 5' flanking region and							

HOMEOTIC BICOID PROTEIN (PRD-4)	SWISSPROT	P09081	1.90E-02 P09081	4099 9225 14309 1.5	14309	2228	4099
Mycopiasma imitans VihA1 precursor (vihA1) and VihA2 precursor (vihA2) genes, partial cds	Z T	1.90E-02 AF141940.1	1.90E-02	1.1	14178	5606	3961
est_HUMAN contains Alu repetitive element;	EST_HUMAN	1.90E-02 Al301183.1	1.90E-02	1.0	3654 8793 13887	8793	3654
yz28b02.s1 Soares_multiple_sclerosis_2NbH IMAGE:284331 3'	EST_HUMAN	N52250.1	1.90E-02 N52250.1	1.3		3560 8699	3560
Urotrichus talpoides mitochondrial gene for cytochrome b, complete cds	NŢ	1.90E-02 AB033611.1	1.90E-02	0.8		3222 8370	3222

to contains Alu repetitive element;contains element MER24 repetitive element;	EST_HUMAN	.70E-02 AA669618.1	1.70E-02	1.0		9205	4078
HIST DINE-KICH GLYCOTKO I FIN TKECOKKOCK	SWISSPROT	P04929	1.70E-02	0.9		8712	3573
hm45a04.x1 NCI_CGAP_RDF1 Homo sapiens cDNA clone IMAGE:3015534 3' similar to contains MER19.b1 MER19 repetitive element;	EST_HUMAN	AW827368.1	1	4.2		8608	3467
qb22a08.x1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:1696982 31	EST_HUMAN	Al147615.1	1.70E-02	0.9	13227	8119	2968
Homo sapiens putative Rab5 GDP/GTP exchange factor homologue (RABEX5), mRNA	NT	7657495 NT	1.70E-02	1.4		7693	2603
Oryctolagus cuniculus mRNA for mitsugumin29, complete cds	NT	AB004816.1	1.70E-02	4.7		7178	2066
Homo sapiens chromosome 21 segment HS21C004	NT	AL163204.2	1.70E-02	1.1		6947	1828
h/34a03.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA cione im/AGE:2933/40 3 similar to contains L1.t1 L1 repetitive element;	EST_HUMAN	AW573183.1	1.70E-02	0.8	12052	6872	1750
hf34a03.x1 Scares_NFL_T_GBC_S1 Homo sapiens cDNA cione imAGE:2933/40 3 similar to contains L1.t1 L1 repetitive element :	EST_HUMAN	AW573183.1	1.70E-02	0.8	12051	6872	1750
	EST HUMAN	BE394869.1	1.70E-02	1.3	11194	6036	888
qm06b04.x1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1881007 3			1	1.1	15075	9994	4887
HYPOTHETICAL PROTEIN DJ845024.2	SWISSPROT	O60810	1.80E-02	1.1	15064	9980	4873
QV4-DT0021-301299-071-511 DT0021 Homo sapiens cDNA	EST_HUMAN	AW936363.1		1.4	14543	9455	4332
ak24h04.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1406935 3'	HUMAN			1.2		9128	3996
MR1-OT0011-280300-009-g04 OT0011 Homo saplens cDNA	HUMAN			-:1	14046	8949	3812
MR1-OT0011-280300-009-g04 OT0011 Homo sapiens cDNA	EST_HUMAN	2.1		1.1	14045	8949	3812
S.cerevisiae chromosome XV reading frame ORF YOR151c	NT	Z75059.1	1.80E-02	1.1	13742	8630	3489
te52a09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA done IMAGE:2090296 3	EST_HUMAN	AI805829.1	1.80E-02	0.9		8323	3174
Drosophila melanogaster cytoplasmic protein encore (enc) mRNA, complete cds	NT	AF243382.1	1.80E-02	1.2	11719	6545	1417
H.francisci mRNA for myelin basic protein (MBP)	NT	X17664.1	1.80E-02	1.3	11432	6279	114
nn5206.x1 NCL_CGAP_C01/ Homo sapiens curva done invase502/2/+ 3 similer to contains element MER29 repetitive element;	EST_HUMAN	AW771104.1	1.80E-02	1.4	10649	5524	343
REMOVING ENZYME) (UTASE)	SWISSPROT	Q9Z9H0	1.80E-02	==		5291	85
	NT	AL161550.2	1.90E-02	1.9	12762	7557	4944
3' similar to contains Atu repetitive element:	EST_HUMAN	Al452999.1	1.90E-02	2.5	14657	9561	4441
	SWISSPROT	P09081	1.90€-02	1.5	14310	9225	4099
HOMEOTIC BICOID PROTEIN (PRD-4)	L			1.5	14309	9225	4099
Mycopiasma imitans VihA1 precursor (vihA1) and VihA2 precursor (vihA2) genes, partial cds	NT	AF141940.1	1.90E-02	1.1	14178	9093	3961
qn04c07.x1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1897260 3' similar to contains Alu repetitive element;	EST_HUMAN	Al301183.1	1.90E-02	1.0	13887	8793	3654
yz28b02.s1 Soares_multiple_sclerosls_2NbHMSP Homo sapiens cDNA clone IMAGE:284331 3'	EST_HUMAN	N52250.1	1.90E-02	1.3		8699	3560
Urotrichus talpoides mitochondrial gene for cytochrome b, complete cds	NT	AB033611.1	1.90E-02	0.8		8370	3222

TATIO MIRMING DISCOLUTION C. CONTROLLE CONTROL		6006018	1 100	I	Ī	Г	3
riolito sapreita companiatifility 2 complement component factor 8 (H2-Bf), mRNA	2		1.40E-02	1.0	٦	7	3476
	- N	AL16158	1.40E-02	5.2		П	3439
Arabidonsis thallans DNA chromosome 4, contig fragment No. 82	2		1.40E-02	5.2	13693	_	3439
Arabidonsis thallana DNA chromosome 4, contig fragment No. 82	NT CHE	AVV0/4212.1	1.401-02	1.0	13606	8496	3352
xh09d09.x1 NCI CGAP GU1 Homo sapiens cDNA clone IMAGE:25/5/93.3	EST HIIMAN		1.405-02	0.9		6502	1374
Homo sapiens headpin gene, complete cds	NT		1.400-02	1.0		6406	1276
Xenopus laevis neurogenin related 1b (X-NGNR-1b) mkna, complete cus	NT.	11677701	1,705	ي چ		Г	1236
Haemophilus Influenzae Rd section 115 of 163 of the Complete Section 2	N	1132800.1	405-00	T	1002	Т	2011
	NT	7705980	1 40E-02	T	Т	Т	411
Chiamydophila pneumoniae AR39, section of or an of the Campiese general	NT	1 40E-02 AE002230.2	1.40E-02	T	60741	Т	4048
	EST_HUMAN	AA160967.1	1.50E-02	12	44350		
aa88c10.s1 Stratagene letal reuna 937.202 nullu seprena con control MAGE:	EST_HUMAN	AA458797.1	1.50E-02	1.2		8753	3614
STATE CONTROL HOME BANKING COME IMAGE:838386 3		AJ000210.1	1.50E-02	1.4	13276	8175	3023
Homo sapiens CACNA1F gene, exons 1 to 48	NT.	AJ006216.1	. 1	1.4	13275	8175	3023
Homo sapiens CACNA1F gene, exons 1 to 48	NT.	AL 1010246 1	1.505-02	0.9	12446	7238	2128
Arabidopsis thaliana DNA chromosome 4, contig fragment No. 90	NT I TOWN	N3957.7		1.4	12411	7206	2095
yv27b07.s1 Scares fetal liver spleen 1NFLS Homo sapiens CUNA Gone invoser.250520	TOT LINAN						
TOTAL September 2015	2	8923734 NI	1.50E-02	8.5		$\neg$	2
Uv2-r 10012-140130 300 300 110 HSA130894), mRNA	EST HUMAN	AW875407.1		0.9	14417	$\neg$	4203
Parisary 440100 030 f07 PT0012 Home sapiens cDNA	•	AF110520.1	1.60E-02	2.2		9211	4084
oxidoreductase, NG29, KIFC1, Fas-binding protein, BING1, Japasin, Narobornico, NES, BING4, beta 1,3-galactosyl transferase, and RPS18 genes, complete cds; Sacm21 gene, particle.	i						
Mus musculus major histocompatibility complex region NG27, NG28, RPS28, NADH	1. 6	AVVOOUGELI	1.601-02	3.8	13734	8622	3481
II 3-CT0219-160200-063-C07 CT0219 Homo sapiens cDNA	EST HIMAN			=		7751	2662
Homo saciens mRNA for KIAA0634 protein, partial cds	NIT I TOWN			0.5	12900	7696	2606
Homo sapien	TOT LIMAN		-	1.0	12816	7614	2518
Homo sanians KVLOT1 gene	SVISSERVOI		_	==	12523	7311	2202
INVED CARBOXYI ESTERASE 22 PRECURSOR (EGASYN) (ESTERASE-22)	SWISSPROT		1.60E-02	1.1	12522	7311	2202
protein homologue  PRECURSOR (EGASYN) (ESTERASE 22 PRECURSOR (EGASYN) (ESTERASE-22)	NT			1.1	11931	6761	1635
Treconema maltophilum flaB2, flaB3 and fliD genes for flagellin subunit proteins and CAP	141		1.60E-02 ALUZ1928.1	0.5		5665	501
mplete	27		1.70E-02 /	5.5	15144	10070	4967
Mirid hemesvirus 4 complete genome	10000		1.70E-02 /	5.3		9820	4708
ov51e02.s1 Soares testis NHT Homo sapiens cDNA clone IMAGE:1640858 3	HIMAN		_	1.8	14823	9729	4615
to contains L1.t1 L1 repetitive element :	EST_HUMAN	3.1	1	1.2	14641	9548	4427
hr24a03.x1 Soares NFL T GBC_S1 Homo saplens cDNA clone IMAGE:2933740 3' similar	EST_HUMAN	R02506.1	1.70E-02 F	1.8		9231	4105
Lossins rt Spares fetat liver spieen 1NFLS Homo sapiens cDNA clone IMAGE:124047 o						_	

Library A Charge reting NUMBER HOMO SADJETY COURT TO COLOR TO COLO							-
s, 13 and 14 years	2	1.20E-02   X87344.1	1.20E-02	0.9		5399	206
0 13 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	i						
H saniana DMB. HLA-Z1. IPP2, LMP2, TAP1, LMP7, TAP2, DOG, CRUZ and the control of					j	, 32.5	91.0
Hollio Sapielis Gillouiscomo E. Cognitivo Tanas Tanas Tone Done and RINGS	N	1,30E-02 AL163201.2	1.30E-02	<u>.</u>	12216	19007	5178
Hann parlons chromosome 21 segment HS21C001		1.30E-02   AT 102200.1	1.305.02	1.4		9024	3888
Mus musculus beta-sarcoglycan gene, complete cus	21	AE160288 1	300				
TIONIC Selection on consecution of	INI	1.30E-02 AL163201.2	1.30E-02	0.9	12216	7029	1912
I Lomo seriens chromosome 21 segment HS21C001	217				1,1000	9000	4307
E01014/01 MVOF 1000400110001	EG TOWAN	1.40E-02  AW962688.1	1.40E-02	73	14505	0500	1307
1	-07 CI INAM		1.702	٤	14004	ROCR	438/
EST3/4/61 WAGE resequences, who come	HEST HUMAN	1 40F-02 AW962688.1	4 40250	7.2	1/502	7	
ł							
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4387	9509		4594	7.3	1.4000-04	WAAA000001	ECT TOWN	
į	Т	Т	200	3		AWGRORRA 1	EST HUMAN	EST374761 MAGE resequences, MAGG Homo sapiens cDNA
438/	9/ 8009 8009	$\cdot$	13316	09		AL163201.2	NT	Homo saplens chromosome 21 segment HS21C001
3888	_	٦	-	1.4	I L	AF169288.1	NT	Mus musculus beta-sarcoglycan gene, complete cus
5176	17	П	12216	1.0	1.30E-02	AL163201.2	NT T	Homo sapiens Chromosome 21 segment 192, 1995, LMP7, TAP2, DOB, DQB2 and RING8, H.sapiens DMA, DMB, HLA-Z1, IPP2, LMP2, TAP1, LMP7, TAP2, DOB, DQB2 and RING8,
22	206 5399	89		0.9	1.20E-02	X87344.1	NT	9, 13 and 14 genes
ا پر			10660	0.6	1.20E-02	AA059299.1	EST_HUMAN	Z165g01.71 Sogress reuna NZEPTIN IN INCIDENTIAL SOFTEN LA TRANSPORTIN DE CONTRAINS element 1.
4	-1	٦	10742	1.5	1.20E-02	P38898	SWISSPROT	HYPOTHETICAL 17.1 NO PROTEIN IN FORG STREET HARGE:1734670 3' similar to
7			11015	1.0	1.20E-02	AI183522.1	EST_HUMAN	qd68e12.x1 Soares_testis_Nr11 normo saprens curro consumo L1.t1 L1 repetitive element ;
21	Т	Т	12448	0.7	_	AL163213.2	NT	Homo sapiens chromosome 21 segment rozerous
23	$\neg$		12699	1.2	1	AW172350.1	EST_HUMAN	X3/609.X1 Soares NFL 1 GBC S1 Homo sapiens cDNA clone IMAGE:2659432 3
25	2596 74	7493	12699	<u>1</u> .ω	1.20E-02	AW172350.1	ESI_ HOMANA	M37e03.1 Stratagene ovarian cancer (#937219) Homo sapiens cDNA clone IMAGE:545020
— <u>–</u> မ	3063 82	8214		6.2	1.20E-02	AA075418.1	EST_HUMAN	5'
33		П	13503	1.9	1.20E-02	R62805.1	EST_HUMAN	y/11b08.81 Soares placental Nuzrin Fibrillo September 2A-like protein gene, hereditary
	-							(HLA-H) gene, RoRet gen
48	4830 99	9938	15027	2.0		U91328.1	Z	gene, compositor Col IbioT mRNA, partial cds
49	4974 10077	137	-	1.7	1.20E-02	AB019/66.1	2	zm69e11.s1 Stratagene neuroepithelium (#937231) Homo sapiens cDNA clone
	3 8 8	6377	11536	<u>.</u>	1.10E-02	AA070364.1	EST_HUMAN	IMAGE:530924 3'
		6803	11983	0.7		X75491.1	NT	H.sapiens LIPA gene, exon 4
	П	8	11984	0.7	1.10E-02	X75491.1	N1	H.sapiens LIPA gene, exon +
	$\neg$	3		د ار	1 105-02	N99523.1	EST HUMAN	za40e05.r1 Soares fetal liver spieen 1NFLS Homo sapiens cDNA clone IMAGE:295040 5
	T	188	3103		1 105-02	AF055066.1		Homo sapiens MHC class 1 region
ي ا	2478		13732	2.5	1.10E-02	AI653508.1	EST_HUMAN	SW:XPF_HUMAN Q92889 DNA-REPAIR PROTEIN COMPLEMENTING XP-F CELL;
ای	П	907 <u>1</u>		0.9	1.10E-02	BE144637.1	EST_HUMAN	PM3-H10179-300999-001-1100 F10170 F10110 September CDNA
4		9146		1.0	1.10E-02	AW813796.1	EST_HUMAN	RC3-S1019/-120200-015-911-S1016/-12016-05-05-05-05-05-05-05-05-05-05-05-05-05-
		9835	14927	1.8	1.10E-02	AL048383.2	U	DKFZp586E0924_s1 586 (synonym: hute1) Homo saplens cDNA clone UKFZp590EU924
	$\neg$	9930		0.9	1.10E-02	AW820281.1		QV2-S10/296-150/200-0/26-C11 S10/250 (VIII) Sapons CDNA
	П	5214	10317	1.1	1.00E-02	AW846120.1	EST HUMAN	CN2.HT0177.041099-017-h12.HT0177 Homo saplens cDNA
	1506 6	6633	11802	0.9	1.000-02	AA808080 1	EST HIMAN	oc22h08.st NCI CGAP GCB1 Homo sapiens cDNA clone IMAGE:1350495.3
N	1	7621	1	3 -	1 000 -02	1.00E-02 AW845621.1	EST HUMAN	MR0-CT0060-081089-003-h10 CT0060 Homo sapiens cDNA
36	2404	8065	14037	0.8	1.00E-02	1.00E-02 AI065086.1	EST_HUMAN	HA0921 Human fetal liver cDNA library Homo saplens cDNA

	5038 10138 15215 1.1 7.00E-03 BE044191.1		4916 10023 1.8 7.00E-03 AL163278.2	4495 9615 1.0 7.00E-03 AVV630888.1	4404 8000	121 DEEE 1 12 7 00F-03 AW117711.1	
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In appropriate to the Total of Home sapians CUNA Gond INAGE: 000000 C 01111101	EST_HUMAN to TR:093434 093434 RETICULOCALBIN:	ho39h08.x1 Soares_NFL_T_GBC_S1 Homo sapiens CUNA Gotte introde. 3033007 o similar	Homo sapiens chromosomie 21 segment 1921 Carlo	Illipados, y I No. 1007 100 100 100 100 100 100 100 100 10	hands 1 NCI CGAP GIII Homo sapiens cDNA clone IMAGE:2969936 5	TR:Q12987 Q12987 ACIDIC 82 KDA PROTEIN.;	xe34f09.x1 NCI_CGAP_Ut1 Homo sapiens cDNA clone IMAGE:2609033 3' similar to

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<b>4</b> 20	654	653	653	5129	5115	4597	4267	4231	3873	3846	3711	3499	3336	3336	3208	2862	2862	2744	1220	1220	5038		4918	4495	4434
5811	5811	5811	5811	10224	10211	9711	9392	9355	9009	8982	- 1	l l	8480	8480	8356	8013	8013	7828	6351	6351	10138	10138	10023	9615	9555
10939	10938	10939	10938	15299	15290	14803			L	14083	13939		13595	13594		13114	13113	13031	11512	11511	15216	15215			
1.0	1.0	0.7	0.7	0.9	1.8	6.8	1.4	0.9	1.2	0.9	1.3	1.1	1.2	1.2	2.1	3.1	3.1	-1	3.2	3.2	1.1	1.1	1.8	1.0	1.2
5.00E-03	5.00E-03	5.00E-03	5.00E-03	6.00E-03	6.00E-03	6.00E-03	6.00E-03	6.00E-03	6.00E-03	6.00E-03	6.00E-03	6.00E-03	6.00E-03	6.00E-03	6.00E-03	6.00E-03	6.00E-03	6.00E-03	6.00E-03	6.00E-03	7.00E-03	7.00E-03	7.00E-03	7.00E-03	7.00E-03
5.00E-03 L25105.1	L25105.1	L25105.1	L25105.1	AA889972.1	AL 103201.2	_	AI016833.1	N58946.1	BE250108.1		6754029	W37985.	U90880.1	U90880.1	H75690.1	AA759135.1		AF112374.1	AW511148.1	AW511148.1	BE044191.1	BE044191.1	AL163278.2		AW117711.1
NT	NT T	NT	N T	EST_HUMAN	2	EST HUMAN	EST HUMAN		EST HUMAN	EST_HUMAN		EST_HUMAN	N <sub>1</sub>	NT.	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	3	EST_HUMAN	EST_HUMAN
ORFA, and grpE-like protein, complete cds	ORFA, and grpE-like protein, complete cds  Chlamydia trachomatis partial ORFB; aminoacyl-tRNA synthase, complete cds; complete	ORFA, and gpE-like protein, complete cds  ORFA and spE-like protein, complete cds	ORFA, and grpE-like protein, complete cds	3'	al95009.s1 Soares parathyroid tumor NbHPA Homo sapiens cDNA clone IMAGE:1404256	EST27116 Cerebellum II Homo sapiens CUNA 3 eru similar w EST comming ou opposition anni PS21C081	ov33c11.x1 Soares testis NH1 nomo sapients cuiva durie importante An reneat	IMAGE:278179 3'	COUGH ZOUGH INITIATION SCHOOLS SANISHING BANISHS CONA Clone	IRCO-CT0204-240999-021-010 C10204 nomo sapiens cono.	Mus musculus giucosamine-o-prospirate deariiillase (Oripi), iiiivyo	zc13a11.r1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:322172 5	and vasotocin genes, complete cds	and vasotocin genes, complete case the cold blooding protein seniarity reductase	yr77h04.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:211351 5	an/8611.S1 Soares lesus Nrt I nonto sapieto como como como	ah78e11.51 Soares testis NHT Homo sapiens CDNA Clone 1321772 3	Danio rerio odorant receptor gene cluster	to SW:PXR_HUMAN 075469 ORPHAN NUCLEAR RECEPTOR PXR;	TO SW:PXR_HUMAN 075469 ORPHAN NUCLEAR RECEPTOR PXR:			ıls	hh89a05.y1 NCI_CGAP_GUT Homo sapiens GUNA GUTE INFOCE.2505500 0	TR:Q12987 Q12987 ACIDIC 82 KDA PROTEIN. ;

4503 4209 4207

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5.00E-03

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Citrus sinensis seed storage protein citrin mRNA, complete cds Homo sapiens SCL gene locus cn15c02.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone

yu79g10.r1 Soares fetal liver spieen 1NFLS Homo sapiens cDNA clone IMAGE:240066 5'

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EST\_HUMAN

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complete cds

281a08.r1 Stratagene colon (#937204) Homo saplens cDNA clone (MAGE:510998 5 601304161F1 NIH\_MGC\_21 Homo saplens cDNA clone IMAGE:3638510 5

RC6-UM0014-170400-023-G01 UM0014 Homo sapiens cDNA

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on75g12.s1 Soares\_NFL\_T\_GBC\_S1 Homo sapiens cDNA clone IMAGE:1562566 3' yg51e04.s1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:35988 3' RC3-BT0333-110100-012-f01 BT0333 Homo sapiens cDNA

2/81a08.r1 Stratagene colon (#937204) Homo sapiens cDNA clone IMAGE:510998 5' RC6-UM0014-170400-023-G01 UM0014 Homo sapiens cDNA

Rattus norvegicus type 1 astrocyte and olfactory-limbic associated protein AT1-46 mRNA.

zs59a01.rl NCI\_CGAP\_GCB1 Homo saplens cDNA done IMAGE:701736 5

y951e04.s1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:35988 3' PHOSPHATIDYLINOSITOL 3-KINASE 3 (PI3-KINASE) (PTDINS-3-KINASE) (PI3K)

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	5.00E-03  AAZ89673.1	5.00E-03	1.4		9026	3890
T HI IMAN		3.00	c.0	13828	8837	3698
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Pseudomonas aeruginosa suain noci pomonin enterna e					Т	1,50
NT Priorito septens permer servicio pentrillin-binding protein 18 (pon8) gene, complete	5.00E-03 AJ297357.1	5.00E-03	₫		8387	3040
In the second se				1	02/0	3128
EST HUMAN Sylogozist Society Disease Francisco	5 00E-03 R71794.1	5.00E-03	3	12265		
L	5.00E-03  AL161491.2	5.00E-03	1.8		8265	3116
Arabidoosis thaliana DNA chromosome 4, col		5.002-03	4.1	13352	8248	3097
vc81f09.s1 Soares infant brain 1NIB Homo s	T07600 4	3.000	J.:c	13161	8056	2905
EST HUMAN (601194796F1 NIH MGC 7 Homo sapiens CUNA doing improcessor as a second of the second of th		502	 	JC871	1/3/	2648
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ST HIMAN INTEGRALS AND SOURCE STATE OF THE SOU		0.000	:	11403	522	1115
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Alabidopsis utalialia iii iii iii	5.00E-03 AJ010457.1 NI	5.00E-03	1.4	11386	6234	1096
The tribonin Haliana mRNA for DEAD box RNA helicase,RH3						

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4296	4058	3950	3379	3371	3112	3044	2963	2683	2249	2249	2248	2211	1707	1638		1458	861	367	5164	4842	4509	3914	3852	3836	3572	3487	3487	2664	2526	2526
9420				8514	8261	8195	8114	7770	7355	7355	7354	7319	6830	6764		6585	6009		╗	9949	9628	9048	8988	8711	8711	8628	8628	7752	7622	7622
14510	!	14164		13621	13365	13297		12970	_ 12562	12561				11933		11759	11170	10678	15328	15038	14722		14088	13810	13810	13740	13739	12950	12823	12822
11.9	1.3	1.6	6.8	2.0	2.6	4.5	0.8	4.0	1.1	1.1	1.4	0.9	1.0	0.7		0.8	. 2.6	0.6	13.2	0.8	1.1	1.8	0.9	0.8	0.8	0.9	0.9	1.0	0.7	0.7
3.00E-03		3.00E-03	3.00E-03	3.00€-03	3.00E-03	3.00E-03	3.00€-03	3.00E-03	3.00E-03	3.00€-03	3.00E-03		3.00E-03	3.00E-03		3.00E-03		3.00E-03	4.00E-03 J02187.1	4.00E-03	4.00E-03	4.00E-03	4.00E-03	4.00E-03		4.00E-03	4.00E-03	4.00E-03	4.00E-03	4.00E-03
AJ011432.1	Z32521.1	3.00E-03 AI792278.1	Y12500.1	U34606.1	3.00E-03 AW802687.1	BE379296.1	Y09006.1	AF034863.1	AJ271004.1	AJ271004.1	Z32521.1	AF055066.1	X87344.1	AA468110.1		Al133024.1	AF011920.1	AF011920.1	J02187.1	4.00E-03 AL163301.2	AI732754.1	4.00E-03 AJ011712.1	4.00E-03 AF060868.1	Q13606	Q13606	AW188426.1	4.00E-03 AW188426.1	4.00E-03 AL163284.2	U52111.2	U52111.2
Z	2	EST HUMAN		NT.	EST_HUMAN		NT	NT	N <sub>T</sub>	N <sub>T</sub>	NT	NT	NT	EST_HUMAN		EST_HUMAN	NT	TN	Z,	TN	EST_HUMAN	NT	Ŋ	SWISSPROT	SWISSPROT	EST_HUMAN	EST_HUMAN	Z	<u> </u>	N
Rattus norvegicus gont gene	S.cereale (cv. Halo) mRNA for triosephosphate Isomerase	ah04f09.y5 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:1155689 5		Mus musculus alpha-1(XVIII) collagen (COL18A1) gene, exon 1 and 2	IL2-UM0076-240300-056-D03 UM0076 Homo sapiens cDNA		Arabidopsis thaliana rpoMt gene	Rattus norvegicus synaptic scaffolding moiscule (S-SCAM) mRNA, complete cds		Mus musculus TFF3/ITF gene for Trefoil Factor 3/Intestinal Trefoil Factor protein, exons 1-3	S.cereale (cv. Halo) mRNA for triosephosphate Isomerase	Homo sapiens MHC class 1 region	9, 13 and 14 genes	Alu repetitive element;	nc73c05.s1 NCI_CGAP_Pr2 Homo sapiens cDNA clone IMAGE:782984 similar to contains	HA1611 Human fetal liver cDNA library Homo sapiens cDNA	Homo sapiens protein kinase CK2 catalytic subunit aipha gene, exon 1	Homo sapiens protein kinase CK2 catalytic subunit alpha gene, exon 1	Foot and mouth disease virus serotype A-12 119ab capsid protein VP3	Homo sapiens chromosome 21 segment HS21C101	ab18a08.x5 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:841142 3 similar to contains Alu repetitive element;			OLFACTORY RECEPTOR 5/1 (OLFACTORY RECEPTOR-LIKE PROTEIN OLF1)	OLFACTORY RECEPTOR 511 (OLFACTORY RECEPTOR-LIKE PROTEIN OLF1)	xj98f04.x1 NCI_CGAP_Co18 Homo sapiens cDNA clone IMAGE:2665279 3'	xj98f04.x1 NCI_CGAP_Co18 Homo sapiens cDNA clone IMAGE:2665279 3	Homo sapiens chromosome 21 segment HS21C084	Homo saplens X28 region near ALD locus containing dual specificity phosphatase 9 (DUSP9), ribosomal protein L18a (RPL18a), Ca2+/Calmodulin-dependent protein kinase I (CAMKI), creatine transporter (CRTR), CDM protein (CDM), adrenoleukodystrophy protein >	Homo sapiens X28 region near ALD locus containing dual specificity phosphatase 9 (DUSP9), ribosomal protein L18a (RPL18a), Ca2+/Calmodulin-dependent protein kinase i (CAMKI), creatine transporter (CRTR), CDM protein (CDM), adrenoleukodystrophy protein >

M9808.0 Soares pinear grand Invite or from sections sections	JEST HUMAN	1 00E-03 H98471 1	1000			Г	
The Albanda	EST HUMAN	BE388904.1	1.00E-03	1.1		7	386
Callielus didiligualius criip is Bore :: " Sun cone IVAGE:3606670 5'	Z		2.00Ε-03	0.8		$\neg$	5077
yo45e02.s1 Soares adult brain N2b4HB55Y Homo sapiens curva durie invasce. Poucos o	EST_HUMAN	R87773.1	2.00E-03	1.7		9726	4612
cds, alternatively spliced	NT	AF223391.1	2.00E-03	0.9	14817	9722	4608
Homo saplens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial		P.150 151 1	2.00.70	j.,	1400	8568	4446
Drosophila melanogaster shortsighted class 2 (shs) mRNA, complete cds	Z	42542 1	2000	3 3	14002	Т	446
Drosophila melanogaster shortsighted class 2 (shs) mRNA, complete cus	N <sub>T</sub>	1 42512 1	2005.03			1	41/2
	N.T	U68491.1		2	1	Т	
ENV POLYPROTEIN CONTAINS: CONTENT OF SELECTION	SWISSPROT	P03374	2.00€-03	2.2	14235	T	
Rattus norvegicus micha for orice i, comprese cus	NT	AB040802.1		0.9	1212	Т	38 3
9, 13 and 14 genes	N <sub>T</sub>	X87344.1	2.00E-03	<b>4.</b> 9	13847	8754	3615
zx42a10.r1 Soares_total_letus_Nb2HF6_9w Horito sapietis curro constitution of the cons	EST_HUMAN	AA450138.1	2.00E-03	4.0	13620	8513	3370
	EST_HUMAN	AW137782.1	2.00E-03	1.7		7631	2535
1 Willy Oppose The County State Home Saniege CONA clone IMAGE 2717010 31	141	AL 103302.2	2.00E-03	6	12524	7312	2203
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COLLAGEN ALTINA S(IV) CITAINT NECONSON	SWISSPROT	P29400	2.00E-03	1.8		6699	1573
Danios syndrome type VI) (PLOD) mRNA  Danios syndrome type VI) (PLOD) mRNA		4557836	2.00E-03	0.7	11796	6626	1500
Danios syndrome type VI) (PLOD) mRNA  Danios syndrome type VI) (PLOD) mRNA  Danios syndrome type VI) (PLOD) mRNA	NT	4557836 NT	2.00E-03	0.7	11795	6626	1500
GLYCOPROTEIN SFA-1) (CD151 ANTIGEN)  GLYCOPROTEIN SFA-1) (CD151 ANTIGEN)  GLYCOPROTEIN SFA-1) (CD151 ANTIGEN)	SWISSPROT	P48509	2.00€-03	<u>:</u>	11775	6601	1474
DI ATELET ENDOTHEL IAL TETBASPAN ANTIGEN 3 (PETA-3) (GP27) (MEMBRANE	ESI_HOMAN	2.00E-03  AA661605.1	2.00E-03 /	0.6	11638	6471	<u>3</u>
Human alpha-2-plasmin innibitor gene, excisio circi.	NT	M20783.1	2.00E-03 M20783.1	0.7	11636	24 88	<u>ğ</u>
yd15h03.r1 Soares fetal liver spieen 1NFLS Homo sapiens cDNA done IMAGE:108341 5	EST_HUMAN	T70874.1	2.00E-03	2.4		7899	768
RING CANAL PROTEIN (NECCIT TROTEIN)	SWISSPROT	Q04652	2.00E-03 (	0.9	10791	568	2
RING CAVAL PROTEIN (KELOH PROTEIN)	SWISSPROT	Q04652	2.00E-03 (	0.9	10790	5668	3
Homo sapiens ron I, Gilnass accuratis process	NT	4506414 NT	_	1.1	15266	10187	5089
Homo sapiens row 1, 0 in ase setting the protein 1 (RAP1GA1) mRNA	NT	4506414 NT	3.00E-03	1.1	15265	10187	88
	EST_HUMAN	AI732754.1	3.00E-03 /	1.5	14931	9839	4727
DKFZp761B0712_r1 761 (synonym: hamy2) Homo saplens CDNA clone IMAGE:841142 3' similar	EST_HUMAN	AL119067.1	3.00€-03 /	0.9	14841	9744	4630
2000 Alone DKE7076180712 5			3.000-00	1	07041	1008	4417

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6112	_1	6112	8390	7769		6906	9768	9215	8979	_	1	6580	10111	9830	9829	9829	9682	9499	8991		$\neg$	$\neg$	8303	8303	8102	7219	7097	6285	6237	6217	5962	5962
11270		11268	13497	12969	12659	12094	14864		14080		15301	11754	15181		14921	14920	14776	14586	14091	13751	13750	13516	13412	13411	13208	12428	12300	11438	11389	11368	11120	11119
1.6	1.6	1.6	1.0	3.3	1:1	0.6	2.4	4.2	1.3	1.4	0.8	1.0	0.71	6.2	1.8	1.8	0.9	3,8	1.0	0.8	0.8	1.2	2.3	2.3	1.2	2.9	1.3	1.5	1.4	0.7	0.8	0.8
6.00E-04	6.00E-04	6.00E-04	7.00E-04	7.00E-04	7.00E-04	7.00E-04	8.00E-04	8.00E-04	8.00€-04	8.00E-04	9.00E-04	9.00⋶-04	1.000-03	1.00E-03	1.00E-03	1.00E-03	1.00E-03	1.00E-03	1.00E-03	1.00E-03	1.00E-03	1.00E-03	1.00€-03	1.00E-03	1.00E-03		1.00E-03	1.00E-03	1.00E-03	1.00E-03		1.00E-03
P07207	P07207	P07207	4885170	AL163210.2	U29185.1	L41825.1	U29185.1	P08547	R07008.1	X96469.1	L11910.1	AW453046.1	C#0#0#	BE154067.1	AI073485.1	AI073485.1	U29449.1	BE246536.1	1.00E-03 Z49649.1	U68061.1	U68061.1	P08547	P18915	P18915	AB033117.1	AJ131016.1	P47808	AI692616.1	1.00E-03 AI954572.1	AI865788.1	AI720263.1	A1720263.1
SWISSPROT	SWISSPROT	SWISSPROT		N	NT	N	NT.	SWISSPROT	EST_HUMAN	FN	Z	EST_HUMAN	OVI INC.	ESI HUMAN	EST_HUMAN	EST_HUMAN		EST_HUMAN	Z	NT	S <sub>1</sub>	SWISSPROT	SWISSPROT	SWISSPROT	NT	N <sub>1</sub>	SWISSPROT	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN
NEUROGENIC LOCUS NOTCH PROTEIN PRECORDOR	NEUROGENIC LOCUS NOTCH PROTEIN PRECURSOR	NEUROGENIC LOCUS NOT CH PROTEIN PRECURSOR	Homo sapiens chromosome X open reacing iraitie o (CAONTO) ilinivix	Homo sapiens chromosome 21 segment how in the Covorest matrix		Homo sapiens CYP1/ gene, o end	Homo sapiens pron protein (rhr) gene, complete cas	LINE-1 REVERSE IRANSCRIPTAGE HOMOLOG	yf12h10.r1 Soares fetal liver spieen 1NFLS Homo sapiens cDNA clone IMAGE:126691 5'	X.laevis mRNA for C4SR protein	Human retinoblastoma susceptibility gene exons 1-27, complete cus			ABOLI DOBOTEIN A IV DRECI IRSOR (ABOLAIV)		ov45c04.x1 Soares testis NH1 Homo sapiens cuna cone invage: 16402623	Caenomabdius elegans spliced leader KNA (SLS alpha), (SL4), and (SLS) genes	project=TCBA Homo sapiens cDNA clone TCBAP4909	S. cerevisiae chromosome X reading frame Ord 13N 149W	Human MUC2 gene, promoter region	Human MUC2 gene, promoter region	LINE-1 REVERSE TRANSCRIPTASE HUMULUG	(SECRETED CARBONIC ANHYDRASE) (SALIVARY CARBONIC ANHYDRASE)	(SECRETED CARBONIC ANHYDRASE) (SALIVARY CARBONIC ANHYDRASE)	Homo sapiens miking for KIAA1281 protein, partier that CELLYDD ATASE VIX (CA.VIX	Homo sapiens SCL gene locus	HIGH MOLECULAR WEIGHT FORM OF MYOSIN I (FINWYWII)	contains Alu repetitive element;	WX83810.X1 NCI CGAP Metro Homo sapiens CDNA done IMAGE:2338440 3' similar to	WK86a06.x1 NCI CGAP Pant Homo sapiens CUNA Cone IMAGE: 2551242 3	to TR:Q13825 Q13825 AU-BINDING PROTEIN/ENOYL-COA HYDRATASE.;	as70b08.x1 Barstead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2334039 3' similar to TR:Q13825 Q13825 AU-BINDING PROTEIN/ENOYL-COA HYDRATASE:

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5052	4784	4711	1995	3969	3882	3268	1810	862	188	150	5132	4437	4228	4228	3002	2586	2086	2037	1449	829	829	657	3367	1485	635	4092	3999	3998	3877
10152		_	9123	9101	$\neg$			$\neg$	П	5346	$\overline{}$	9558	$\neg$		8154	$\neg$	7198	Т	П	5978	5978	5814	8510	6612	T		П	_1	9013
	14988		14207		14113	13520		11171	10509	10474	15302	14653	14433	14432	13254	12880		12355	11750	11139	11138	10942	13617		10917	14301	14213	14212	14108
1.3	0.9	4.5	1.1	1.2	3.6	3.4	1.2	1.3	0.8	1.0	0.9	1.3	2.8	2.8	0.8	1.0	1.2	0.6	1.4	0.5	0.5	1.4	1.4	0.7	2.0	3.3	0.9	9.0	1.3
3.00E-04	3.00E-04	3.00E-04	3.00E-04	3.00€-04	3.00€-04	3.00E-04	3.00E-04	3.00E-04	3.00E-04	3.00E-04	4.00E-04	4.00E-04	4.00E-04	4.00E-04	4.00E-04	4.00E-04	4.00E-04	4.00E-04	4.00E-04	4.00E-04	4.00E-04	4.00E-04	5.00E-04	5.00E-04	5.00E-04 O10341	6.00≣-04	6.00E-04	6.00E-04	6.00E-04
Y11204.1		BE153778.1	AF196779.1	AJ271735.1		P25147	3.00E-04 AI399674.1	3.00E-04 U83991.1	P49259	AL119426.1	N48313.1	AA086324.1	AA576331.1	AA576331.1	P19474		AL046704.1	AL163278.2	AW753356.1	AI720263.1	AI720263.1	U32748.1	AA548931.1	AW851844.1	O10341	U45983.1	K01315.1	6.00E-04 K01315.1	6.00E-04 AI862525.1
NT	EST_HUMAN	EST_HUMAN	N	3	SWISSPROT	SWISSPROT	EST_HUMAN	NT	SWISSPROT	EST_HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	SWISSPROT	SWISSPROT	EST_HUMAN	NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	Z	EST_HUMAN	EST_HUMAN	SWISSPROT	NT	NT	T	EST_HUMAN
V.carterl gene encoding volvoxopsin	QV3-DT0045-221299-046-d09 DT0045 Homo sapiens cDNA		Homo saplens transcription factor IGHM enhancer 3, JM11 protein, JM4 protein, JM5 protein, T54 protein, JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synaptophysin genes, complete cds; and L-type calcium channel a>	Homo sapiens Xq pseudoautosomai region; segment 1/2	GLUTAMATE DEHYDROGENASE 2 PRECURSOR (GDH)	INTERNALIN B PRECURSOR	th23a02.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2119082.3	Human short chain acyl CoA dehydrogenase gene, exons 1 and 2	180 KD SECRETORY PHOSPHOLIPASE A2 RECEPTOR PRECURSOR (PLAZ-R)	DKFZp761J221_r1 761 (synonym: hamy2) Homo saplens cDNA clone DKFZp761J221 5'	yy78b10.s1 Soares_multiple_sclerosis_2NbHMSP Homo sapiens cUNA clone IIMAGE:279643 3' similar to contains Alu repetitive element;		nh10a10.s1 NCI_CGAP_Co1 Homo sapiens cDNA done IMAGE:951930 3' similar to gb:M21121 T-CELL SPECIFIC RANTES PROTEIN PRECURSOR (HUMAN);	nh10a10.s1 NCL_CGAP_Co1 Homo septens cDNA done IMAGE:951830 3' similar to gb:M21121 T-CELL SPECIFIC RANTES PROTEIN PRECURSOR (HUMAN);	52 KD RO PROTEIN (SJOGREN SYNUROME TYPE A ANTIGEN (30-A)) (70(30-A))	SERICIN-2 (SILK GUM PROTEIN 2)	DKFZp434D059_r1 434 (synonym: htes3) Homo sapiens cDNA cione DKFZp434D059 5'	Homo sapiens chromosome 21 segment HS21C078	RC3-CT0254-130100-023-f01 CT0254 Homo saplens cDNA	as70b08.x1 Barstead colon HPLRB7 Homo saplens cDNA done IMAGE::2334039 3 similar to TR:Q13825 Q13825 AU-BINDING PROTEIN/ENOYL-COA HYDRATASE. :	as70b08.x1 Barstead colon HPLRB7 Homo sapiens cuna cione invalge: 2334039 3 similar to TR:Q13825 Q13825 AU-BINDING PROTEIN/ENOYL-COA HYDRATASE.	Haemophilus influenzae Rd section 63 of 163 of the complete genome	contains Alu repetitive element;	QV0-CT0225-021099-030-a07 CT0225 Homo sapiens CUNA		Homo sapiens CCR8 chemokine receptor (CMKBR8) gene, complete cds	Homo sapiens epsilon-1 pseudogene (IGHEP1) gene, 5' flanking region	Homo sapiens epsilon-1 pseudogene (IGHEP1) gene, 5' flanking region	wj15a11.x1 NCi_CGAP_Kid12 Homo saplens cDNA clone IMAGE:24028763'

						:	
							Homo sapiens SCG10 like-protein, helicase-like protein NHL, M68, and ADP-ribosylation
169	5363	10489	1.2	2.00E-04	2.00E-04  AF217796.1	NT	factor related protein 1 (ARFRP1) genes, complete cds
889	6037	11195	1.5	2.00E-04 M86524.1	M86524.1	NT	Human dystrophin gene
889	6037	11196	1.5	2.00E-04 M86524.1	M86524.1	NT	Human dystrophin gene
						•	qh98e11.x1 Soares_NFL_T_GBC_S1 Homo saplens cDNA clone IMAGE:1855052 3' similar

nv95a02.s1 NCI_CGAP_Pr16 Homo saplens cDNA clone IMAGE:1237514 similar to contains Alu repetitive element;	EST_HUMAN	AA714263.1	1.00E-04	1.3	12895	7691	2600
Kaposi's sarcoma-associated herpesvirus ORF 68 gene, partial cds; and ORF 69, kaposin, v-FLIP, v-cyclin, latent nuclear antigen, ORF K14, v-GPCR, putative phosphoribosylformylgiychamidine synthase, and LAMP (LAMP) genes, complete cds	NT	AF148805.1	1.00E-04	1.2	11907	6737	1610
Kaposi's sarcoma-associated herpesvirus ORF 68 gene, partial cds; and ORF 69, kaposin, v-FLIP, v-cyclin, latent nuclear antigen, ORF K14, v-GPCR, putative phosphoribosylformylglycinamidine synthase, and LAMP (LAMP) genes, complete cds	NT	AF148805.1	1.00E-04	1.2	11906	6737	1610
Anguilla anguilla dopamine D1A1 receptor (d1A1) gene, complete cds	NT	U62918.1	1.00E-04	1.0		6438	1310
UI-H-BIO-aab-e-09-0-UI.s1 NCI_CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2708825 3'	EST_HUMAN	AW013847.1	1.00E-04	1.3	11388	6236	1098
UI-H-BI0-aab-e-09-0-UI.s1 NCI_CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2708825 3'	EST_HUMAN	AW013847.1	1.00E-04	1.3	11387	6236	1098
RETROVIRUS-RELATED POL POLYPROTEIN [CONTAINS: REVERSE TRANSCRIPTASE]	SWISSPROT	P11369	1.00E-04	0.8	11351	6198	1059
ჯ26c09.s1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:262864 3' similar to contains L1.t1 L1 repetitive element ;	EST_HUMAN	H99646.1	1.00E-04	1.0	11048	5902	750
Danlo rerio hagoromo gene, exons 1 to 6, partial cds	NT	AB037997.1	2.00E-04	1.7	15162	10094	4991
PUTATIVE MITOCHONDRIAL CARRIER YOR222W	SWISSPROT	Q99297		1.3	15122	10051	4946
Gallus gallus proteasome 28 kDa subunit homolog mRNA, complete cds	NT	U09226.1	2.00E-04	1.3		9801	4689
yu01e11.r1 Soares_pineal_gland_N3HPG Homo sapiens cDNA clone IMAGE:232556 5'	EST_HUMAN	H96265.1		1.3	14782	9687	4569
yu01e11.r1 Soares_pineal_gland_N3HPG Homo sapiens cDNA clone IMAGE:232556 51	EST_HUMAN	H96265.1	1	1.3	14781	9687	4569
Phaseolus vulgaris nitrate reductase (PVNR2) gene, complete cds		U01029.1		4.6		9178	4051
EST390550 MAGE resequences, MAGP Homo sapiens cDNA	EST_HUMAN	AW978441.1	1	0.8	14073	8973	3837
Human tyrosine kinase TXK (txk) gene, exons 9 and 10		U34374.1		1.0	13670	8559	3417
QV2-BT0636-070500-194-b07 BT0636 Homo sapiens cDNA		BE082317.1		2.5	13637	8532	3389
am58c09.x1 Johnston frontal cortex Homo saplens cDNA clone IMAGE:1539760 3'	EST_HUMAN	AI124529.1		1.0	13215	8109	2958
TCRBV34S1, TCRBV14S1, TCRBV3S1, TCRBV4S1A1T, TRY4, TRY5, TRY6, TRY7, TRY8, TCRBD1, TCRBJ1S1, TCRBJ1S2,>	N	U66061.1	2.00E-04	<b>1</b> .55	12825	7624	2528
Human germline T-cell receptor beta chain TCRBV17S1A1T, TCRBV2S1, TCRBV10S1P, TCRBV29S1P, TCRBV19S1P, TCRBV15S1, TCRBV11S1A1T, HVB relic, TCRBV28S1P	•						
zu39b05.s1 Soares ovary tumor NbHOT Homo sapiens cDNA clone IMAGE:740337 3' similar to contains Alu repetitive element;	EST_HUMAN	AA478980.1	2.00E-04	1.3		7246	2136
Mus musculus 5' flanking region of Pib3 gene	NT	2.00E-04   AF224268.1	2.00E-04	0.5		6911	1791
Homo sapiens chromosome 21 segment HS21C003	NT	AL163203.2		0.7		6303	1169
qh98e11.x1 Soares_NFL_T_GBC_S1 Homo saplens cDNA clone IMAGE:1855052 3' similar to contains MER3.b2 MER3 repetitive element;	EST_HUMAN	Al286021.1	2.00E-04	1.4		6297	1162
Human dystrophin gene	NT	M86524.1	2.00E-04	1.5	11196	6037	889
Human dystrophin gene	NT	M86524.1	2.00E-04	1.5	11195	6037	889
Homo sapiens SCG10 like-protein, helicase-like protein NHL, M68, and ADP-ribosylation factor related protein 1 (ARFRP1) genes, complete cds	NT	AF217796.1	2.00E-04	1.2	10489	5363	169

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2544	1981	1981	5202	4344	42/6	34/3	27.0	3434	2886	108	1039	555	555	34	3 <u>4</u>	4852	2920	846	28	3995	1589		683	5148	5033	5028	5028	4665	4362	3971	3675	3247		2655	2655	2600
7640	7096	Т	Τ.,	1	Т	Т	Т	Т	Т	$\neg$	6179		П	╗	7	П		7	$\neg$	9127	6/15		5838	10243			$\Box$	7	9484 484	9103	8814	8394		7744	7744	7691
12841	88771	Γ		14555	Τ	Τ	Τ	T	7	П	11332			٦	10650				11108	14210	11885	1005	10971		15208	15204	15203	14874	14575	14186	13908	13501		12944	12943	12896
0.5	0.0	5 6		C.a	ءً اد	3		5.8	1.9	0.7	0.8	1.1	1.1	1.0	1.0	1.2	0.8	1.2	1.5	0.8	=		0.6	0.9	1.0	1.6	1.6	3.0	0.9	1.8	<u>:</u>	1.0		1.2	1.2	1.3
6.00E-05	0.000	6.00E-05	7.000	7.000	30000	7 005 05	700=-05	7.00E-05	7.00E-05	7.00E-05	7.00E-05	7.00E-05	7.00E-05	7.00E-05	7.00E-05	8.00E-05	8.00E-05	8.00E-05	8.00E-05	9.00E-05	9.00E-03	0 000 08	9.00E-05	1.00E-04	1.00E-04	1.00E-04	1.00E-04	1.00E-04	1.00E-04	1.00E-04	1.00E-04	1.00E-04		1.00E-04	1.00E-04	1.00E-04
Al655241.1	4000110	1	CONTROL ANDOLOGICA	7.005.05 0.00000.1	1 160080 4			AB009080.1	7.00E-05 AL163278.2	7.00E-05 T05902.1	Q22949	L49075.1		AW847445.1		F28172.1	M83575.1		AJ251646.1	AI762209.1	7.040010.	A1 043810 1	AA718933.1	Z72560.1		7662015	7662015	015117	P08547	M14042.1	AI440282.1	Q62203	·	BE218833.1	BE218833.1	AA714263.1
EST_HUMAN		TUINT	ŀ	EST LIMAN	3	3	NT	NT	NT	EST_HUMAN	SWISSPROT	EST_HUMAN	EST HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN	NT	Š,	N,	EST_HUMAN	101,110111	TST HUMAN	EST HUMAN	Z	EST_HUMAN	3	5 NT	SWISSPROT	SWISSPROT	NT	EST_HUMAN	SWISSPROT		EST_HUMAN	EST HUMAN	EST_HUMAN
gb.J03250 DNA TOPOISOMERASE I (HUMAN):	wh54h06 x1 NCI CGAP GC6 Homo sapiens cDNA clone IMAGE:2309531 3' similar to	Homo saplans chromosome X open reading frame 6 (CXORF6) mRNA	Homo sanlens chromosome X open reading frame 6 (CXORF6) mRNA	EST78713 Plaranta i Homo sapiens cDNA	Caenorhabditts elegans Sko1p homolog mRNA, complete cds	Homo sapiens chromosome 21 segment HS21C001	Homo saplens chromosome 21 segment HS21C103	Dictyostellum discoideum gene for TRFA, complete cds	Homo sapiens chromosome 21 segment HSZ1CU/8	EST03791 Fetal brain, Stratagene (catrespozuo) nomo sapiens curvo cono in puro	PRECURSOR (GPAT)	HUMO72014F HUMAN TOWAR CUNN HOUTE ACY TRANSFERANCE MITOCHONDRIAL	HUM072014F Human tovea CUNA from sapients CUNA Going EST HED072014	RC3-CT0208-220999-011-E04-CT0208 Homo sapiens CUNA	RC3-CT0208-220999-011-E04-CT0208 Homo sapiens CUIVA		Human platelet-derived growth factor A chain (PUGFA) gene, exuns emy		Pisum sativum mRNA for beta-1,3 giucanase (grisz gene)	contains MER6.t1 MER6 repetitive element:	wisan11 x1 NCI CGAP Co16 Homo sapiens cDNA clone IMAGE:2394068 3' similar to	DKFZp434A0128_r1 434 (synonym: htes3) Homo saplens cDNA clone DKFZp434A0128 5	ah45c11.s1 Soares testis NT1 Florito Sapietis Curix Colito 1202700 0	S. Cerevisiae Chromosome VII reading Italiae Chr. 1 Choose	qx62h04.x1 NCI_CGAP_GC4 Homo sapiens CUNA cione IMAGE.2003973 3	Homo sapiens KIAA0237 gene product (NIAA0237), ITIKINA		FYN-BINDING PROTEIN (SLP-76 ASSOCIATED PROTEIN) (SLAT-130)	LINE-1 REVERSE TRANSCRIPTASE HUMOLOG	Mouse alpha 1 type-IV collagen mRNA		(2) (SF3A66)	SPLICEOSOME ASSOCIATED PROTEIN 62 (SAP 62) (SPLICING FACTOR 3A 3000M	hv45c08.x1 NCI_CGAP_Lu24 Homo sapiens cUNA cione IMAGE:3170300 3	hv45c08.x1 NCI CGAP Lu24 Homo sapiens cuiva done invage. 317 0300 3	nv95a02.s1 NCI_CGAP_Pr16 Homo sapiens cDNA done IMAGE:1237514 similar to contains Alu repetitive element;

Total Sapisis Caroniconia = Cognition	2	AL163282.2	1.00E-05	0.6	12949	7951	2663
Homo contene chromosome 21 segment HS21C082	2	AJ131016.1	2.00E-05	0.8	14985	2 9892	4782
CO ESCRISTI A CO	EST DOMAN	BE3784/1.1	2.00E-05	1.1		2 9706	4592
	111	Al263349.1	2.00€-05	1.0	14723	9629	4510
qq13a08.x1 Soares_NhHMPu_S1 Homo sar		7	2.000	0.8		7 88/4	3737
	EST HUMAN	AL 039107.1	3 00E-05	ء اد		Т	3449
S. cerevisiae 12.8 Kbp fragment of the left arm of chromosome XV	NT	X95465 1	3 00=05		10010	Т	3300
Homo sapiens chromosome 21 segment HSZ1CUU/	NT	AL163207.2	2 00E-05	n u	T	Т	3 6
H.sapiens DNA for endogenous retroviral like element	NT	X89211.1	2.00E-05	:	Т	Т	3333
Homo sapiens p47-pnox (NCF1) gene, cumplete cus	3	AF184614.1	2.00€-05	9.0	T	Т	Met
L	EST_HUMAN	BE066036.1	2.00E-05	1.5	13353	7	3098
	EST_HUMAN	AA160562.1	2.00E-05	2.6		7768	2681
zq46a12.r1 Stratagene hNT neuron (#937233) Homo sapiens cDNA done IMAGE:632734 5				ļ		$\neg \tau$	
Human agenosine dearmilase (non) gene, compress con	NT	M13792.1	2.00E-05	1.1	12834	7634	2538
1_	EST_HUMAN	AI286021.1	2.00E-05	0.6	12590	7382	2276
AN element;	EST_HUMAN	AI248061.1	3.00E-05	0.8	10949	5821	4731
Homo sapiens NOUT protein (NOUT) gains, excits 1, 5, and c	NT	AF149773.1	3.00E-05	0.9	14729	$\neg T$	4519
L	EST HUMAN	AA368679.1	3.00€-05	1.2	14578	7	4365
EST 7990 Placenta I Dono septens cows similar to similar to p53-associated protein		AA368679.1	3.00E-05	1.2	14577		4365
		BE169211.1		6.9	14497	$\neg$	4285
	EST_HUMAN	BE169211.1		6.9	14496	Т	4285
	SWISSPROT	Q62234		0.9	12974	Т	2688
N xy24g03.x1 Soares_NFL_T_GBC_S1 Homo sapiens cunA cione impost.zera ios o	EST_HUMAN	AW273851.1	_	4	11336	7	1043
IMAGE:1849458 3' similar to contains Alu rei element ;	EST_HUMAN	AI248061.1	3,00€-05	0.8	10949	5821	n n n
HOMO Sapiens Chidniosonio Zi segment i CE 1000	NT	AL163280.2	4.00E-05	7.1	14834	7	4624
Human renin (KEIV) gerie, 3 lieuwing region	N	U12821.1	4.00E-05	1.6		$\Box$	2776
Homo sapiens KIAAU001 gene (paruar), A10 gene and L11 1 2 gene	Z	AJ289880.1	4.00E-05	1.4		7327	2220
	NT	AJ251884.1	5.00E-05	3.0	14125	9032	3897
Homo sapiens MET IA gaine, promoter region and other	Z	AJ251058.1	5.00E-05	0.9	13082		2831
	_	8923891	5.00E-05	0.6		6938	1819
L	EST HUMAN	AW392086.1		5.2	11673	6509	1382
Homo sapiens monocyte/neutrophil elastase	NT.	AF053630.1		0.8	10947	5820	2783
H.sapiens flow-sorted chromosome 6 Hindill fragment, SCBPAZBB10	NT	Z84506.1		0.9	12942	7741	2652
H.sapiens flow-sorted chromosome 6 Hindlit fragment, SC6pA28B10	NT	Z84506.1	6.00E-05	0 9	12041	7741	2662

nomo sapians critorios de seguianos rocera	Z	4.00E-06  AL163279.2	4.00E-06	1.0	15036	9947	4840
CONTAINS GIGING MICHAEL INFORMATION IN THE PROPERTY OF THE PRO	EST HUMAN	A1886939.1	4.00E-06				4702
w/94c10.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2432362 3 Silliller to							
IL3-C10214-150200-0/4-803 C10214 Homo sapietis CONA	EST_HUMAN	AW848295.1	4.00E-06	1.8	14052	8956	3819
	EST_HUMAN	Н92947.1	4.00E-06	0.9		8642	3500
Gailus Bailus Davis progent (Davis N3HDC Homo earlane cDNA clone IMAGE:231956 3	N	AF 198349.1	4.006-06	==	13278	8177	3025
Catture Calline Dark's protein (Dark's) mRNA complete cds	- 10mg 4	744012401.		1.2	Γ	Т	2218
UI-H-BI0-aat-f-05-0-UI.s1 NCI_CGAP_Sub1 Homo saplens cDNA clone IMAGE:2710425 3'	FIST HUMAN	AW/015401 1		3			
9, 13 and 14 genes	NT	X87344.1	4.00E-06	2.4		6458 158	1329
H.sapiens DMA, DMB, HLA-Z1, IPP2, LMP2, TAP1, LMP7, TAP2, DOB, DQB2 and RINGS.			1		T	Т	
ι~	EST_HUMAN	A1334928.1		1.8	٦	Т	1312
tb33e09.x1 NCI CGAP HSC2 Homo sapiens cUNA clone invage: 2000100 3	EST_HUMAN	AI334928.1	4.00E-06	1.8	П	Т	1312
contains Alu repetitive element;contains element MER21 repetitive element;	EST_HUMAN	AW103354.1	4.00E-06	ა ა	11137	5977	828
contains Atu repetitive element; contains L1 repetitive element;	EST_HUMAN	R16267.1	4.00E-06	1.5	10912	5790	631
ya48c03.r1 Soares Infant brain 1NIB Homo sapiens cDNA done IMAGE:53254 5 Similar to					٦	╗	
ox08e02.x1 Soares_fetal_liver_spieen_inrts_Si norm seperation conversed invage: 1655738 3' similar to contains MER8.t2 MER8 repetitive element;	EST_HUMAN	AI040099.1	6.00E-06	2.0	14860	9765	4653
	SWISSPROT	Q01456	6.00E-06	1.8	13169	8062	4647
	EST_HUMAN	BE069189.1	6.00E-06	1.0	13868	8774	3635
QV3-BT0379-010300-105-011 B10379 Homo sapiens CDNA	EST_HUMAN	BE069189.1	6.00€-06	1.1	13139	$\neg$	2887
	EST_HUMAN	AA385542.1	7.00E-06	0.9		$\neg$	3516
	EST_HUMAN	AI368252.1	7.00E-06	6.7		7995	2844
Homo sapiens KiAA0555 gene product (KIAA0555), Illinux	7662177 NT	76621	7.00E-06	1.2	11723	6548	1420
to contains MER20.11 MER20 repetitive element;	EST_HUMAN	AA669729.1		0.6		6108	963
RC3-C10285-201189-011-011 C10263 Figure sapiens cTNA clone IMAGE:854251 3' similar	EST_HUMAN	AW362539.1	8.00E-06	0.6	12783	7944	2483
Human alanine:glyoxylate aminotransterase (AGA) gette, excuss Latin 2	NT.	M61755.1	9.00E-06	2.9		П	3559
IMAGE:1759191 3'	EST_HUMAN	Al218983.1	9.00E-06	3.7	13307	8208	3057
R/3805.X1 NCI CGAP TIOCO TOTTO SAPIRIS CONTROL MAN CONTROL CON	EST_HUMAN	AI583811.1	9.00€-06 /	2.4	12930	7726	2637
Homo sapiens chromosome za segment nozarowe	NT.	AL163246.2	_	4.5	15071		4882
XY49911.X1 NCI CGAP LU34. I TORRO SAPIRIS COMO COMO INSCRIBISCO COMO	EST HUMAN	AW419134.1		2.2	14945	9853	4742
ZW69g04.r1 Soares testis NH1 Homo papiens conn Cone IMAGE: 3856548 3	EST HUMAN	AA431119.1	1.00E-05	2.0	14385		4180
Homo saplens chromosome 21 segment HSZ1CUUS	NT	AL163203.2	1.00E-05 /	1.1	14293		4082
MOSAIC PROTEIN LGN	SWISSPROT	P81274		9.2	14115		3886
Drosophila melanogaster strain Lamto 120 Suppressor of Hairless (Su(H)) gene, partial cds	N	AF088273.1	1.00E-05	1.7	13833		3599
ng77g06.s1 NC  CGAP_Pr22 Homo saplens cDNA done IMAGE:1158394 3'	EST_HUMAN	AA631101.1	1.00E-05	0.9	13493	8385	3238

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5043	4273	1949	1949	1565	1554	1554		1507	1435	1041	2	31	3710	3700		2519	2418	2326	1550	195	4461	4376	9	3716	3716	3228	2891	2117	2117
5043 10143	9398	7066		6692	6681	6681	$\neg$	$\neg$		6181	П	5240	8848	8839	Т	Т	Т	7429	6677	5389	9581	9498		8853	8853	8376	8042	7228	7228
	14481	12262	Г		11850	11849			11738		10926	10345	13938	13930		12817	12724	12638			14678	14585		13945	13944		13142	12437	12436
1.4	11.1	1:/		1.2		0.9		1.1		1.0	0.6	0.7	1.5	1.5		2.7	0.8	1.1	2.3	1.1	4.3	0.9		1.3	1.3	2.1	1.0	1.3	1.3
1.00E-06	1.00E-06	1.006-08	1.00E-06	1.00E-06	1.00E-06	1.00E-06		1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00€-06	2.00E-06	2.00€-06		2.00E-06 P06719	2,00€-06	2.00€-06	2.00E-06	2.00E-06 P54366	3.00E-06	3.00E-06		3.00€-06	3.00E-06	3.00E-06	3.00E-06	3.00E-06	3.00E-06
AL163285.2		AF 104014.1	AF184614.1	P27625	AA034141.1	AA034141.1		AL163278.2		AI206097.1	AF084364.1	076082	AB030896.1	AA173518.1		P06719	P04929	Al672138.1	P21414	P54366	X54816.1	T50266.1		3.00E-06 BE047094.1	BE047094.1	Al857779.1	AA868218.1	AA700562.1	AA700562.1
Z	3	1	2 2	SWISSPROI	EST_HUMAN	EST_HUMAN		NT	SWISSPROT	EST_HUMAN	NT.	SWISSPROT	2	EST_HUMAN		SWISSPROT	SWISSPROT	EST_HUMAN	SWISSPROT	SWISSPROT	NT	EST_HUMAN		EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN
Homo sapiens chromosome 21 segment rioz rocco	gene, complete cds	Human ABL gene, exon 1b and intron 1b, and putative M8604 Met protein (M8604 Met)	Home saniens p47-phox (NCF1) gene, complete cds	UNA-DIRECTED RNA POLTMERAGE III DAXGEGT GODGINT	3' similar to contains Alu repetitive element;	3 Similar to contains Aud repeature elements.  The 12 st Spaces fatal liver spieen 1NFLS S1 Homo sapiens cDNA done IMAGE:428982	zi06a12.s1 Soares_fetal_liver_spleen_1NFLS_ST Homo sapiens CUNA done invage: 429902	Homo saplens chromosome 21 segment HSZ1CU/o	MEROZOITE SURFACE PROTEIN CMZ-8	TR:Q13538 Q13538 ORF2: FUNCTION UNKNOWN.;	Mus musculus Demmet protein (Demmes) microx, complete cus	MEMBER 5) (HIGH-AFFINITY SODIUM-DEPENDENT CARNITINE COTRANSPORTER)	Mus musculus gene for opporati receptor A to, withhere was	5'	zp02e05.r1 Stratagene ovarian cancer (#937219) Homo saplens cDNA clone IMAGE:595232	KNOB-ASSOCIATED HISTIDINE-RICH PROTEIN PRECURSOR (KAHKY)	HISTIDINE-RICH GLYCOPROTEIN PRECURSOR	wa04a03.x1 NCI_CGAP_Kid11 Homo sapiens cunk done invese.zza/voo 3 siiiiiiiii ko contains MER30.b1 MER30 repetitive element ;	ENDONUCLEASE]	HOMEOBOX PROTEIN GOODECOLD	microglobulin, N-terminus.	to contains L1 repetitive element	yb78b10.r1 Stratagene ovary (#937217) Homo saplens cDNA clone IMAGE:772/5 5' similar		hq64d12.x1 NCI_CGAP_HN13 Homo sapiens CUNA Gone IMAGE:31241313	TR: 060734 C60734 LINE-1 LIKE PROTEIN :contains L1:2 L1: Tepetitive element :	contains LTR1.13 LTR1 repetitive element;	3' similar to contains 1.t1 L1 repetitive element;	ZI34b08.s1-Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:432653 3' similar to contains L1.t1 L1 repetitive element; -razhna s1 Scares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:432663

8.00E-07 BE047871.1 EST  8.00E-07 AI288596.1 EST  7.00E-07 AI288596.1 EST  7.00E-07 AF167341.1 NT  6.00E-07 AF167341.1 NT  6.00E-07 AV855558.1 EST  5.00E-07 AV855558.1 EST  5.00E-07 AV855558.1 EST  5.00E-07 AV855558.1 NT  5.00E-07 AV8009602.1 EST  5.00E-07 AV8009602.1 EST  3.00E-07 AV8009602.1 NT  3.00E-07 AV8009602.1 EST  3.00E-07 T84704.1 EST  3.00E-07 T84704.1 EST  3.00E-07 AV8009602.1 EST  3.00E-07 T84704.1 EST	AF044206.1 Q10364 AI797236.1 T57850.1 T57850.1	0.9 1.8 2.4 2.4 0.9 0.9		4996 10 4996 10	
8.00E-07 BE047871.1 EST_HUMAN B.00E-07 AI288596.1 EST_HUMAN QI B.00E-07 AI288596.1 EST_HUMAN QI B.00E-07 AF167341.1 NT G.00E-07 AF167341.1 NT G.00E-07 AW855558.1 EST_HUMAN GI B.00E-07 AW855558.1 EST_HUMAN GI B.00E-07 AW855558.1 EST_HUMAN GI B.00E-07 AI831893.1 EST_HUMAN GI B.00E-07 BE005077.1 EST_HUMAN GI B.00E-07 BE005077.1 EST_HUMAN GI B.00E-07 AF044206.1 NT GI B.00E-07 AI797236.1 EST_HUMAN	AF044206.1 Q10364 AI797236.1 T57850.1	0.9 1.8 2.4 2.4 0.9 0.9			ĺ
8.00E-07 BE047871.1 EST_HUMAN B.00E-07 AI288596.1 EST_HUMAN G.00E-07 AI288596.1 EST_HUMAN G.00E-07 AF167341.1 NT B.00E-07 AV855558.1 EST_HUMAN G.00E-07 AF044206.1 NT G.00E-07	AF044206.1 Q10364 AI797236.1	0.9 1.8 2.4 2.4 0.9	П		
8.00E-07 BE047871.1 EST_HUMAN B.00E-07 AI288596.1 EST_HUMAN G.00E-07 AI288596.1 EST_HUMAN G.00E-07 AF167341.1 NT G.00E-07 AV855558.1 EST_HUMAN G.00E-07 AV8009602.1 EST_HUMAN G.00E-07 AV800960	AF044206.1 Q10364	0.9 1.8 2.4 2.4 0.9			Т
B.00E-07   BE047871.1   EST_HUMAN   GR2g07.x1 Soares NINHMPu_S1 Homo sapiens	AF044206.1	0.9 1.8 2.4			Т
B.00E-07   BE047871.1   EST_HUMAN   GR2g07.x1 Soares NINHMPu_S1 Homo sapiens		0.9 1.8	T	_1	Т
B.00E-07   BE047871.1   EST_HUMAN   L243d06.y1 NC _CGAP_Bm52 Homo sapiens	AF044206.1	0.9	$\neg$	. Т	Τ
B.00E-07   BE047871.1   EST_HUMAN   Iz43d06.y1 NCI_CGAP_Bm52 Homo sapiens	P38739	0.9	٦	$\neg$	Т
B.00E-07   BE047871.1   EST_HUMAN   L243006.y1 NC] CGAP_Bm52 Homo saplent	T84704.1		8150 13250	2998	
B.00E-07   BE047871.1   EST HUMAN   L24306.y1 NC]_CGAP_Bm52 Homo saplents	BE0050//.1	L	7519 12727	П	
8.00E-07   BE047871.1   EST_HUMAN   L43d06.y1 NC  CGAP_Bm52 Homo sapients	BE005077.1 ES		$\Box$	$\neg$	T
B.00E-07   BE047871.1   EST_HUMAN   Q182g07.x1 Soares NhHMPu_S1 Homo sapient	M99149.1		7348 12558	Т	T
8.00E-07 BE047871.1 EST_HUMAN qB2g07.x1 Soares_NhHMPu_S1 Homo sapient 8.00E-07 Al288596.1 EST_HUMAN qB2g07.x1 Soares_NhHMPu_S1 Homo sapient 8.00E-07 Al288596.1 EST_HUMAN qB2g07.x1 Soares_NhHMPu_S1 Homo sapient 8.00E-07 Al288596.1 EST_HUMAN qB2g07.x1 Soares_NhHMPu_S1 Homo sapient 9.00E-07 Al288596.1 EST_HUMAN qB2g07.x1 Soares_NhHMPu_S1 Homo sapient 9.00E-07 Al288596.1 EST_HUMAN Homo sapiens membrane interfeukln 1 recepted and 11 9.00E-07 Al286596.1 Homo sapiens membrane interfeukln 1 recepted and 11 9.00E-07 Al286596.1 INT HOMO sapiens MLA class ill region containin cytochrome P450 21-hydroxylase (CYP218) helicase (SKi2W), RD, complement factor B genes,> 9.00E-07 Al831893.1 EST_HUMAN wh64f10.x1 NCI_CGAP_Kid11 Homo sapient follows appear in the feature by the fea	AA526763.1		7115	2000 71	
8.00E-07 BE047871.1 EST_HUMAN   C43006.y1 NC  CGAP_Bm52 Homo saplent   8.00E-07 Al288596.1 EST_HUMAN   G182g07.x1 Soares   NhHMPu_S1 Homo saplent   8.00E-07 Al288596.1 EST_HUMAN   G182g07.x1 Soares   NhHMPu_S1 Homo saplent   8.00E-07 Al288596.1   EST_HUMAN   Homo saplent   7.00E-07 Al288596.1   EST_HUMAN   Homo saplent   6.00E-07 AF167341.1   NT   Homo saplent   6.00E-07 AF167341.1   NT   Homo saplent   6.00E-07 AF019413.1   NT   Homo saplent   5.00E-07 AI831893.1   EST_HUMAN   Homo saplent   5.00E-07 AI831893.1   EST_HUMAN   Homo saplent   6.00E-07 AF149774.1   NT   Homo saplent   7.00E-07 AI831893.1   EST_HUMAN   Homo saplent   7.00E-07 AI831893.1   EST_HUMAN   Homo saplent   7.00E-07 AI831893.1   EST_HUMAN   7.00E-07 AI831893.1   EST_HUMAN   7.00E-07 AIR31893.1   EST_HUMAN	M04007.1		6735	1608 67	
8.00E-07 BE047871.1 EST_HUMAN 8.00E-07 AI288596.1 EST_HUMAN 8.00E-07 AI288596.1 EST_HUMAN 7.00E-07 AF167341.1 NT 6.00E-07 AF919413.1 NT 6.00E-07 AF919413.1 NT 6.00E-07 AI831893.1 EST_HUMAN 5.00E-07 AI831893.1 EST_HUMAN 5.00E-07 AF149774.1 NT 3.00E-07 AV009602.1 EST_HUMAN 3.00E-07 AJ271735.1 NT	M99149.1	L	6480 11646	1352 64	
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NT Homo sapiens glypican 3 (GPC3) gene partit			П		
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6847	1	10270	7298	5285	9281	7415	5951	П	П	8669	6466	5279	7893	6224	6632	7502	7434	6224	10289	10176	10176	8772	6708	6282	6076	6075	5885	5885		5344	5344
12026	12025	15341	12513	10412	14361	12624	11102	11101	13773	13772	11634	10406			11801	12709	12642		15358	15256	15255	13866	11879	11435	11234	11233	11028	11027	10494	10473	10472
==	==	1.1	0.7	1.0	1.0	0.6	1.0	1.0	1.1	===	4.6	1.1	0.9	1.3	0.6	0.9	0.9	1.2	1.0	1.0	1.0	14.7	0.7	1.3	1.2	1.1	0.6	0.6	40.0		1.6
4.00E-08 P25723	4.00E-08 P25723	5.00E-08	5.00E-08	5.00E-08	6.00E-08	6.00€-08	6.00E-08	6.00E-08	7.00E-08	7.00E-08	7.00E-08	7.00E-08	8.00E-08	1.00E-07	1.00E-07	1.00E-07	1.00E-07	1.00E-07	2.00E-07	2.00E-07	2.00E-07	2.00E-07	2.00E-07	2.00E-07	2.00E-07	2.00E-07	2.00E-07	2.00E-07	2.00E-07	2.00E-07	2.00E-07
P25723	P25723	Q06278	AA493851.1	AL163303.2	6.00E-08 AL163248.2	6.00E-08 BE144398.1	AL163248.2			P15305	X04809.1	Q02357	Al911352.1	AL163282.2	P09256	7549818 NT	P10263	AL163282.2	AL163301.2	AW070995.1	AW070995.1	AF125348.1	Q09701	Q26768	T63042.1	AA223260.1	AF003530.1	AF003530.1	U38849.1		L77569.1
SWISSPROT	SWISSPROT	SWISSPROT	EST_HUMAN	N <sub>T</sub>	Ŋ	EST_HUMAN	NT	NT	SWISSPROT	SWISSPROT	NT	SWISSPROT	EST_HUMAN	NT	SWISSPROT	8 NT	SWISSPROT	NT	ZT	EST_HUMAN	EST_HUMAN	NT	SWISSPROT	SWISSPROT	EST_HUMAN	EST_HUMAN	NT	NT	NT	NT	NT
DORSAL-VENTRAL PATTERNING TOLLOID PROTEIN PRECURSOR	DORSAL-VENTRAL PATTERNING TOLLOID PROTEIN PRECURSOR	ALDEHYDE OXIDASE	nh03b09.s1 NCI_CGAP_Thy1 Homo sapiens cDNA clone IMAGE:943193 similar to contains Alu repetitive element;	Homo sapiens chromosome 21 segment HS21C103	Homo sapiens chromosome 21 segment HS21C048	MR0-HT0166-191199-004-g09 HT0166 Homo saplens cDNA		Homo saplens chromosome 21 segment HS21C048	DYNEIN HEAVY CHAIN (DYHC)	DYNEIN HEAVY CHAIN (DYHC)	Rat mRNA for ribosomal protein L31	ANKYRIN 1 (ERYTHROCYTE ANKYRIN)	wd16b05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2328273 3'	Homo sapiens chromosome 21 segment HS21C082	GLYCOPROTEIN GPV	Homo saplens RAB, member of RAS oncogene family-like 2A (RABL2A), transcript variant 2, mRNA	RETROVIRUS-RELATED GAG POLYPROTEIN (VERSION 1)	Homo saplens chromosome 21 segment HS21C082	Homo sapiens chromosome 21 segment HS21C101	xa05h07.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2567485 3' similar to WP:C38H2.1 CE00923 PROBABLE RABGAP DOMAINS;	xa05h07.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE::2567485 3' similar to WP:C38H2.1 CE00923 PROBABLE RABGAP DOMAINS;	Homo sapiens caveolin 1 (CAV1) gene, exon 3 and partial cds	HYPOTHETICAL 72.5 KD PROTEIN C2F7.10 IN CHROMOSOME I	I/6 AUTOANTIGEN	yc15g04.s1 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:80790 3' similar to contains L1 repetitive element;	Zr08b07.s1 Stratagene NT2 neuronal precursor 937230 Homo sapiens cDNA clone IMAGE:650869 3' similar to gb:L31860 GLYCOPHORIN A PRECURSOR (HUMAN);contains Alu repetitive element;	Homo sapiens homeobox protein CDX4 (CDX4) gene, complete cds and flanking repeat regions		Fugu rubripes beta-cytoplasmic(vascular) actin gene, complete cds	Homo sapiens DiGeorge syndrome critical region, telomeric end	Homo sapiens DiGeorge syndrome critical region, teloment end

10276   15344   7.2   3,00E-08   AA191195.1   EST_HUMAN   24505.1 Stratagene hVT neuron (#93723   10276   15345   7.2   3,00E-08   AA191195.1   EST_HUMAN   24505.1 Stratagene hVT neuron (#93723   2,00E-08   AA29586.1   EST_HUMAN   A6705.1 NCL CGAP_LUZ6 Homo sapleirs short neuron (#93723   2,00E-08   AA29586.1   EST_HUMAN   A6705.2 NCL CGAP_LUZ6 Homo sapleirs short neuron (#93723   2,00E-08   AA29586.1   EST_HUMAN   A6705.2 NCL CGAP_LUZ6 Homo sapleirs short neuron (#93723   2,00E-08   AA29586.1   EST_HUMAN   A6705.2 NCL CGAP_LUZ6 Homo sapleirs short neuron (#93723   2,00E-08   AA29586.1   EST_HUMAN   A6705.2 NCL CGAP_LUZ6 Homo sapleirs short neuron (#93723   2,00E-08   AA29586.1   EST_HUMAN   A6705.2 NCL CGAP_LUZ6 Homo sapleirs short neuron (#93723   2,00E-08   AA29586.1   EST_HUMAN   A6705.2 NCL CGAP_LUZ6 Homo sapleirs short neuron (#93723   2,00E-08   AA29586.1   EST_HUMAN   A6705.2 NCL CGAP_LUZ6 Homo sapleirs short neuron (#93723   2,00E-08   AA29586.1   EST_HUMAN   A6705.2 NCL CGAP_LUZ6 Homo sapleirs short neuron (#93723   2,00E-08   AA29586.1   EST_HUMAN   A6705.2 NCL CGAP_LUZ6 Homo sapleirs short neuron (#93723   2,00E-08   AA29586.1   EST_HUMAN   A6705.2 NCL CGAP_LUZ6 Homo sapleirs short neuron (#93723   2,00E-08   AA29586.1   EST_HUMAN   A6705.2 NCL CGAP_LUZ6 Homo sapleirs short neuron (#93723   2,00E-08   AA29586.1   EST_HUMAN   A6705.2 NCL CGAP_LUZ6 Homo sapleirs short neuron (#93723   2,00E-08   AA29586.1   EST_HUMAN   A6705.2 NCL CGAP_LUZ6 Homo sapleirs short neuron (#93723   2,00E-08   AA29586.1   EST_HUMAN   A6705.2 NCL CGAP_LUZ6 Homo sapleirs short neuron (#93723   2,00E-08   AA29586.1   EST_HUMAN   A6705.2 NCL CGAP_LUZ6 Homo sapleirs short neuron (#93722   2,00E-08   AA29586.1   EST_HUMAN   A6705.2 NCL CGAP_LUZ6 Homo sapleirs short neuron (#93723   2,00E-08   AA29586.1   ES		1 180018	7 00 5-59	2.6	14382	П	4175
10276   15344   7.2   3,00E-08   AA191195.1   EST_HUMAN   24505.1 Stratagene hNT neuron (#83723   10278   15345   7.2   3,00E-08   AA191195.1   EST_HUMAN   24505.1 Stratagene hNT neuron (#83723   10278	2	D86842.1		1.7		8694	3555
10276   15344   7.2   3,00E-08   AA191195.1   EST_HUMAN   24505.1 Stratagene hNT neuron (#93723   10276   15345   7.2   3,00E-08   AA191195.1   EST_HUMAN   24505.1 Stratagene hNT neuron (#93723   24505.1 Stratagene hNT neuron seplem (#97725   24505.1 Stratagene hNT neuron (#93723   2	<del>-</del>					$\neg \tau$	
10276   15344   7.2   3.00E-08   AA191195.1   EST_HUMAN   274505.11   Stratagene hNT neuron (#93723   10276   15345   7.2   3.00E-08   AA191195.1   EST_HUMAN   274505.11   Stratagene hNT neuron (#93723   10276   15343   5.4   2.00E-08   AA25598.1   EST_HUMAN   274505.11   NCI_CGAP_LU26 Home seplent   10276   10278   3.7   2.00E-08   AA425598.1   EST_HUMAN   274505.11   NCI_CGAP_CORDO-01-098 OT0080   Home seplent   10276   10278   10		BE012076.1		1.1		7	3444
10276   15344   7.2   3.00E-08   AA191195.1   EST_HUMAN   274505.71   Stratagene hNT neuron (#93723   10276   15345   7.2   3.00E-08   AA191195.1   EST_HUMAN   274505.71   Stratagene hNT neuron (#93723   10276   15345   7.2   2.00E-08   AA22598.1   EST_HUMAN   274505.71   Stratagene hNT neuron (#93723   10276   102	1	AL163279.2		3.0	14356		4149
10276   15344   7.2   3.00E-08   AA191195.1   EST_HUMAN   2745005.11   Stratagene hNT neuron (#93723   5.4   2.00E-08   AA191195.1   EST_HUMAN   2745005.11   Stratagene hNT neuron (#93723   5.4   2.00E-08   AA191195.1   EST_HUMAN   2745005.11   Stratagene hNT neuron (#93723   5.33   5.4   2.00E-08   AA425598.1   EST_HUMAN   2745005.11   Stratagene hNT neuron (#93723   5.33   7.2   2.00E-08   AA425598.1   EST_HUMAN   2745005.11   Stratagene hNT neuron (#93723   5.33   7.2   2.00E-08   AA425598.1   EST_HUMAN   2745005.11   Stratagene hNT neuron (#93723   5.33   7.2   2.00E-08   AA425598.1   EST_HUMAN   2745005.11   Stratagene hNT neuron (#93723   5.33   7.2   2.00E-08   AA425598.1   EST_HUMAN   2745005.11   Stratagene hNT neuron (#93723   2.00E-08   AA4259047.1   EST_HUMAN   MRQ-OT10080-240200-001-g8 OT10080 Horn saplens device selement; or contains Au repetitive element; or con	2	AL1632/9.2		3.0	14355		4149
10276   15344   7.2   3.00E-08   AA191195.1   EST_HUMAN   2745005.1 Stratagene hNT neuron (#93723   10276   15345   7.2   3.00E-08   AA25986.1   EST_HUMAN   2745005.1 Stratagene hNT neuron (#93723   10273   10270	1	AL 103200.2		1.4	15350	10282	5191
10276   15344   7.2   3.00E-08   AA191195.1   EST_HUMAN   2745005.71 Stratagene hNT neuron (#93723   10276   15345   7.2   3.00E-08   AA191195.1   EST_HUMAN   2745005.71 Stratagene hNT neuron (#93723   2.45005.71 Stratagene hNT neuron (#93723   2.45005.71 Stratagene hNT neuron (#93723   2.45005.71 Stratagene hNT neuron (#93723   2.416   2.7   2.00E-08   AA425598.1   EST_HUMAN   2745005.71 Stratagene hNT neuron (#93723   2.416   2.7   2.00E-08   AA425598.1   EST_HUMAN   2745005.71 Stratagene hNT neuron (#93723   2.416   2.70E-08   AA425598.1   EST_HUMAN   2745005.71 Stratagene hNT neuron (#93723   2.416   2.70E-08   AA425598.1   EST_HUMAN   2745005.71 Stratagene hNT neuron (#93723   2.416   2.70E-08   AA425598.1   EST_HUMAN   2745005.71 Stratagene hNT neuron (#93723   2.416   2.	LO LIONA	DE 240044		17	13414	8304	3155
10276   15344   7.2   3.00E-08   AA191195.1   EST_HUMAN   24505.71 Stratagene hNT neuron (#93723   10276   15345   7.2   3.00E-08   AA191195.1   EST_HUMAN   24505.71 Stratagene hNT neuron (#93723   2	ROT HIMAN	00016844		•			
10276 15344 7.2 3.00E-08 AA191195.1 EST_HUMAN	EST HUMAN	BE246844.1		1.2	13413	8304	3155
10276   15344   7.2   3.00E-08   AA191195.1   EST_HUMAN   24505.rl Stratagene hNT neuron (#33723   10276   15345   7.2   3.00E-08   AA391195.1   EST_HUMAN   24505.rl Stratagene hNT neuron (#33723   10276   15345   7.2   2.00E-08   AA392996.1   EST_HUMAN   278706.x1 NCI_CGAP_Lu26 Homo saplens   5393   5.4   2.00E-08   AA425598.1   EST_HUMAN   278706.x1 NCI_CGAP_Lu26 Homo saplens   5416   2.7   2.00E-08   AA425598.1   EST_HUMAN   278706.x1 NCI_CGAP_Lu26 Homo saplens   5416   3.7   2.00E-08   AA425598.1   EST_HUMAN   MRO-OT0080-240200-001-g08 OT0080 Hom   5803   10929   3.7   2.00E-08   AW886438.1   EST_HUMAN   MRO-OT0080-240200-001-g08 OT0080 Hom   5803   10929   3.7   2.00E-08   AW886438.1   EST_HUMAN   MRO-OT0080-240200-001-g08 OT0080 Hom   5803   10929   3.7   2.00E-08   AW82347.2   NT   Homo saplens chromosome 21 segment   10929   1.4   2.00E-08   AW270271.1   EST_HUMAN   MRO-OT0080-240200-001-g08 OT0080 Hom   5803   11614   0.7   2.00E-08   AW270271.1   EST_HUMAN   MRO-OT0080-240200-001-g08 OT0080 Hom   5803   11614   0.7   2.00E-08   AW270271.1   EST_HUMAN   MRO-OT0080-240200-001-g08 OT0080 Hom   5803   11614   0.7   2.00E-08   AW270271.1   EST_HUMAN   MRO-OT0080-240200-001-g08 OT0080 Hom   5803   NT   12672   0.5   2.00E-08   AW270271.1   EST_HUMAN   MRO-OT0080-240200-001-g08 OT0080 Hom   5804   NT   12672   0.5   2.00E-08   AW270271.1   EST_HUMAN   MRO-OT0080-240200-001-g08 OT0080 Hom   5804   NT   144201   0.8   2.00E-08   AV813820.1   EST_HUMAN   MRO-OT0808-240200-001-g08 OT0080 Hom   5804   NT   144201   0.8   2.00E-08   AV813820.1   EST_HUMAN   MRO-OT0808-240200-001-g08 OT0080 Hom   5804   NT   144201   0.8   2.00E-08   AV813820.1   EST_HUMAN   MRO-OT0808-240200-001-g08 OT0080 Hom   5804   NT   144201   0.8   2.00E-08   AV813820.1   EST_HUMAN   MRO-OT0808-240200-001-g08 OT0180 Hom   5804   NT   144201   0.8   2.00E-08   AV813820.1   EST_HUMAN   MRO-OT0808-240200-001-g08 OT0-2403 ST0197 Hom   5804   NT   144201   0.8   2.00E-08   AV813820.1   EST_HUMAN   MRO-OT0808-240200-001-g08 OT0-2403 ST0197 Hom							
10276   15344   7.2   3.00E-08   AA191195.1   EST_HUMAN   Zq4505.11 Stratagene hNT neuron (#33723   10276   15345   7.2   3.00E-08   AA191195.1   EST_HUMAN   Zq4505.11 Stratagene hNT neuron (#33723   10276   15345   7.2   3.00E-08   AA191195.1   EST_HUMAN   Zq4505.11 Stratagene hNT neuron (#33723   10276   15345   7.2   2.00E-08   AW302396.1   EST_HUMAN   Zq4607.11 Scares_total_fetus_Nb2H=8_9w   similar to contains Alu repetitive element;cor   5803   10777   0.5   2.00E-08   AW886438.1   EST_HUMAN   MR0-OT0080-240200-001-g08 OT0080 Hon   5803   10928   3.7   2.00E-08   AW886438.1   EST_HUMAN   MR0-OT0080-240200-001-g08 OT0080 Hon   5803   10928   3.7   2.00E-08   AW886438.1   EST_HUMAN   MR0-OT0080-240200-001-g08 OT0080 Hon   5803   10928   3.7   2.00E-08   AW270271.1   EST_HUMAN   MR0-OT0080-240200-001-g08 OT0080 Hon   5803   10928   3.7   2.00E-08   AW270271.1   EST_HUMAN   MR0-OT0080-240200-001-g08 OT0080 Hon   5803   10928   3.7   2.00E-08   AW270271.1   EST_HUMAN   MR0-OT0080-240200-001-g08 OT0080 Hon   5803   11656   0.9   2.00E-08   AW270271.1   EST_HUMAN   MR0-OT0080-240200-001-g08 OT0080 Hon   5803   11656   0.9   2.00E-08   AW270271.1   EST_HUMAN   MR0-OT0080-240200-001-g08 OT0080 Hon   5803   11656   0.9   2.00E-08   AW270271.1   EST_HUMAN   MR0-OT0080-240200-001-g08 OT0080 Hon   5803   11656   0.9   2.00E-08   AW270271.1   EST_HUMAN   MR0-OT0080-240200-001-g08 OT0080 Hon   5803   11656   0.9   2.00E-08   AW270271.1   EST_HUMAN   MR0-OT0080-240200-001-g08 OT0080 Hon   5803   11656   0.9   2.00E-08   AW270271.1   EST_HUMAN   MR0-OT0080-240200-001-g08 OT0080 Hon   5803   11656   0.9   2.00E-08   AW270271.1   EST_HUMAN   MR0-OT0080-240200-001-g08 OT0080 Hon   5803   11656   0.9   2.00E-08   AW270271.1   EST_HUMAN   MR0-OT0080-240200-001-g08 OT0080 Hon   5803   11656   0.9   2.00E-08   AW813620.1   EST_HUMAN   MR0-OT0080-240200-001-g08 OT0080 Hon   5803   11656   0.9   2.00E-08   AW813620.1   EST_HUMAN   MR0-OT0080-240200-001-g08 OT0080 Hon   5803   11656   0.9   2.00E-08   AW813620.1   EST_HUMAN   MR0	SWISSPROT	P33999		1.3	12799	7601	25 2
10276   15344   7.2   3.00E-08   AA191195.1   EST_HUMAN   2q4505.f1 Stratagene NNT neuron (#33723   10276   15345   7.2   3.00E-08   AV302996.1   EST_HUMAN   2q4505.f1 Stratagene NNT neuron (#33723   10276   15345   7.2   3.00E-08   AV302996.1   EST_HUMAN   2p4505.f1 Stratagene NNT neuron (#33723   10276   15345   7.2   2.00E-08   AV302996.1   EST_HUMAN   2p46507.f1 Scares, botal_feus_Nb2HF8_9w   similar to contains Alu repetitive element;cor   15633   10277   0.5   2.00E-08   AV425598.1   EST_HUMAN   2p46507.f1 Scares, botal_feus_Nb2HF8_9w   similar to contains Alu repetitive element;cor   15633   10278   3.7   2.00E-08   AV425598.1   EST_HUMAN   Available Stratagene NNT neuron (#33723   10278   13.0   2.00E-08   AV425598.1   EST_HUMAN   Available Stratagene NNT neuron (#33723   10278   13.0   2.00E-08   AV425598.1   EST_HUMAN   Available Stratagene NNT neuron (#33723   10278   13.0   2.00E-08   AV426597.1   EST_HUMAN   Available Stratagene NNT neuron (#33723   10278   13.0   2.00E-08   AV270271.1   EST_HUMAN   Available Stratagene NNT neuron (#33723   10278   11656   11654   0.7   2.00E-08   AV270271.1   EST_HUMAN   Available Stratagene NNT neuron (#33723   10278   116566   116566   116566   116566   116566   116566   116566   116566   116566   116566   116566	EST_HUMAN	BE141959.1		1.1		7119	2005
10276   15344   7.2   3.00E-08   AA191195.1   EST_HUMAN   24505.71 Stratagene hNT neuron (#93723   10276   15345   7.2   3.00E-08   AA191195.1   EST_HUMAN   24505.71 Stratagene hNT neuron (#93723   10276   15345   7.2   3.00E-08   AA191195.1   EST_HUMAN   246505.71 Stratagene hNT neuron (#93723   10276   15345   7.2   2.00E-08   AW302896.1   EST_HUMAN   2746505.71 NCL CGAP_Lu26 Homo saplents   27466   2.7   2.00E-08   AA425598.1   EST_HUMAN   2746707.71 Scares_total_fetus_Nb2HF8_9w   similar to contains Afu repetitive element; correctly and the processing of the	SWISSPROT	P31792		1.1	11789	7918	1493
10276   15344   7.2   3.00E-08   AA191195.1   EST_HUMAN   Zq45d05.r1 Stratagene hNT neuron (#83723   10276   15345   7.2   3.00E-08   AA191195.1   EST_HUMAN   Zq45d05.r1 Stratagene hNT neuron (#83723   5.4   2.00E-08   AA425598.1   EST_HUMAN   Zm45d05.r1 Stratagene hNT neuron (#83723   5.4   2.00E-08   AA425598.1   EST_HUMAN   Zm45d05.r1 Stratagene hNT neuron (#83723   2.00E-08   AA425598.1   EST_HUMAN   Zm46f07.r1 Scares_total_fetus_Nb2HF8_9w   similar to contains Afu repetitive element; or	EST_HUMAN	AW572881.1		2.9		9983	4876
10276 15344 7.2 3.00E-08   AA191195.1   EST_HUMAN   Zq45d05.r1 Stratagene hNT neuron (#93723   10276   15345 7.2 3.00E-08   AA191195.1   EST_HUMAN   Zq45d05.r1 Stratagene hNT neuron (#93723   5.4 2.00E-08   AA191195.1   EST_HUMAN   Zq45d05.r1 Stratagene hNT neuron (#93723   5393   5.4 2.00E-08   AA425598.1   EST_HUMAN   Zr87f06.x1 NCI_CGAP_Lu26 Home saplens   Zw48f07.r1 Soares_total_fetus_Nb2HF8_9w   Similar to contains Alu repetitive element;cor   Se33 10928   3.7 2.00E-08   AA425598.1   EST_HUMAN   MR0-OT0080-240220-001-g08 OT0080 Home   Se33 10929   3.7 2.00E-08   AA425598.1   EST_HUMAN   MR0-OT0080-240220-001-g08 OT0080 Home   Se33 10929   3.7 2.00E-08   AA425598.1   EST_HUMAN   MR0-OT0080-240220-001-g08 OT0080 Home   Se33 10929   3.7 2.00E-08   AA425538 NT   Home saplens oxydorin receptor (OXTR) mid   Home   Septem   Se33 10929   3.8 2.00E-08   AV270271.1   EST_HUMAN   MR0-OT0080-240220-001-g08 OT0080 Home   Se33 11443   Se33 10929   3.8 2.00E-08   AV270271.1   EST_HUMAN   MR0-OT0080-240220-001-g08 OT0080 Home   Se33 11443   Se33 10929   Se33 NT   Home saplens oxydorin receptor (OXTR) mid   MR0-OT0080-240220-001-g08 OT0080 Home   Se33 NT   Home saplens oxydorin receptor (OXTR) mid   MR0-OT0080-240220-001-g08 OT0080 Home   Se33 NT   Se33 NT   Home saplens   Se33 NT   Home saplens   Se33 NT   Se33 NT   Home   Se34 NT   Home			•	5.4	1	6746	4305
10276	EST HUMAN	AA459040.1		<b>₽</b>		2	3
10276   15344   7.2   3.00E-08   AA191195.1   EST_HUMAN   Zq45d05.r1 Stratagene hNT neuron (#93723   10276   15345   7.2   3.00E-08   AA191195.1   EST_HUMAN   Zq45d05.r1 Stratagene hNT neuron (#93723   10276   15345   7.2   3.00E-08   AA191195.1   EST_HUMAN   Zq45d05.r1 NCi_CGAP_Lu26 Homo sapiens   5393   5.4   2.00E-08   AA425598.1   EST_HUMAN   Zw48f07.r1 Soares_total_fetus_Nb2HF8_9w   similar to contains Alu repetitive element;cor   5803   10928   3.7   2.00E-08   AA425598.1   EST_HUMAN   MR0-OT0080-240200-001-g08 OT0080 Hon   5803   10928   3.7   2.00E-08   AW886438.1   EST_HUMAN   MR0-OT0080-240200-001-g08 OT0080 Hon   5803   10929   3.7   2.00E-08   AU886438.1   EST_HUMAN   MR0-OT0080-240200-001-g08 OT0080 Hon   5803   10929   3.7   2.00E-08   AL163247.2   NT   Homo sapiens chromosome 21 segment HS   6448   11614   0.7   2.00E-08   AW270271.1   EST_HUMAN   MR0-OT0080-240200-001-g08 OT0080 Hon   58030   1.4   2.00E-08   AW270271.1   EST_HUMAN   MR0-OT0080-2	141	J02000.1		0.8	14201	9118	3986
10276   15344   7.2   3.00E-08   AA191195.1   EST_HUMAN   Zq45d05.r1 Stratagene hNT neuron (#93723   10276   15345   7.2   3.00E-08   AA191195.1   EST_HUMAN   Zq45d05.r1 Stratagene hNT neuron (#93723   10276   15345   7.2   3.00E-08   AA191195.1   EST_HUMAN   Zq45d05.r1 NC] CGAP_Lu26 Homo sapiens   5393   5.4   2.00E-08   AW302996.1   EST_HUMAN   Zw48f07.r1 Scares_total_fetus_Nb2HF8_9w   similar to contains Alu repetitive element;cor   5803   10928   3.7   2.00E-08   AA425598.1   EST_HUMAN   MR0-OT0080-240200-001-g08   OT0080 Hon   5803   10929   3.7   2.00E-08   AW888438.1   EST_HUMAN   MR0-OT0080-240200-001-g08   OT0080 Hon   6120   13.0   2.00E-08   AA25538   NT   Homo sapiens chromosome 21 segment HS   6488   11614   0.7   2.00E-08   AA270271.1   EST_HUMAN   MR0-OT0080-240200-001-g08   OT0080 Hon   6930   1.4   2.00E-08   AAV270271.1   EST_HUMAN	NT	10000	2000	٤	14083	28.80	385
10276   15344   7.2   3.00E-08   AA191195.1   EST_HUMAN   Zq45d05.r1 Stratagene hNT neuron (#93723   10276   15345   7.2   3.00E-08   AA191195.1   EST_HUMAN   Zq45d05.r1 Stratagene hNT neuron (#93723   10276   15345   7.2   3.00E-08   AA191195.1   EST_HUMAN   Zq45d05.r1 Stratagene hNT neuron (#93723   10276   15345   7.2   3.00E-08   AA425598.1   EST_HUMAN   Zw48f07.r1 Soares_total_fetus_Nb2HF8_9w   Similar to contains Aiu repetitive element; cordinate of the contains Aiu repetitive element; cordinate of the	SWISSPROT	248960	3 0000	37		0780	3/0
10276   15344   7.2   3.00E-08   AA191195.1   EST_HUMAN   2q45d05.r1 Stratagene hNT neuron (#93723   10276   15345   7.2   3.00E-08   AA191195.1   EST_HUMAN   2q45d05.r1 Stratagene hNT neuron (#93723   10276   15345   7.2   3.00E-08   AA191195.1   EST_HUMAN   2q45d05.r1 Stratagene hNT neuron (#93723   10276   15345   7.2   3.00E-08   AA495598.1   EST_HUMAN   2x48f07.r1 Soares_total_fetus_Nb2HF8_9w   similar to contains Alu repetitive element/cor   5803   10777   0.5   2.00E-08   AF198349.1   NT   Gailus gallus Dach2 protein (Dach2) mRNA,   5803   10929   3.7   2.00E-08   AV886438.1   EST_HUMAN   MR6-OT0080-240200-001-g08 OT0080 Hon   5803   10929   3.7   2.00E-08   AV886438.1   EST_HUMAN   MR6-OT0080-240200-001-g08 OT0080 Hon   5803   10929   3.7   2.00E-08   AV886438.1   EST_HUMAN   MR0-OT0080-240200-001-g08 OT0080 Hon   5803   10929   3.7   2.00E-08   AV886438.1   EST_HUMAN   MR0-OT0080-240200-001-g08 OT0080 Hon   5803   11614   0.7   2.00E-08   AV886438.1   EST_HUMAN   MR0-OT0080-240200-001-g08 OT0080 Hon   58048   11614   0.7   2.00E-08   AV886438.1   EST_HUMAN   Homo sapiens chromosome 21 segment HS   6491   11656   0.9   2.00E-08   AV270271.1   EST_HUMAN   Homo sapiens chromosome 21 segment HS   Homo sapiens chromosome 21 segment   HS   Homo sapiens chromosome 21 segment   HS   HOmo sapiens chromosome 21 segment   HS   HOmo sapiens chromosome 21 segment   HS   HOmo sapiens chromosome 21 segment   HS   HOmo sapiens chromosome 21 segment   HS   HOmo sapiens chromosome 21 segment   HS   HOmo sapiens chromosome 21 segment   HS   HOmo sapiens chromosome 21 segment   HS   HOmo	EST HUMAN	AW813620.1	200E-08	1	199	8 2	3 5
10276 15344 7.2 3.00E-08 AA191195.1 EST_HUMAN	SWISSPROT		2.00€-08	60	W. W. L	2330	3171
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10276 15344 7.2 3.00E-08 AA191195.1 EST_HUMAN Zq45d05.r1 Stratagene hNT neuron (#93723 10276 15345 7.2 3.00E-08 AA191195.1 EST_HUMAN Zq45d05.r1 Stratagene hNT neuron (#93723 2,00E-08 AW302996.1 EST_HUMAN ZW48f07.r1 Soares_total_fetus_Nb2HF8_9w similar to contains Alu repetitive element;cor 5653 10777 0.5 2.00E-08 AA425598.1 EST_HUMAN Similar to contains Alu repetitive element;cor 5653 10777 0.5 2.00E-08 AW886438.1 EST_HUMAN MR6-OT0080-240200-001-g08 OT0080 Hon 5803 10928 3.7 2.00E-08 AW886438.1 EST_HUMAN MR6-OT0080-240200-001-g08 OT0080 Hon 5803 10928 3.7 2.00E-08 AW886438.1 EST_HUMAN MR6-OT0080-240200-001-g08 OT0080 Hon 5803 10928 3.7 2.00E-08 AW886438.1 EST_HUMAN MR6-OT0080-240200-001-g08 OT0080 Hon 5803 10928 3.7 2.00E-08 AW886438.1 EST_HUMAN MR6-OT0080-240200-001-g08 OT0080 Hon 5803 10928 3.7 2.00E-08 AW886438.1 EST_HUMAN MR6-OT0080-240200-001-g08 OT0080 Hon 5803 10928 3.7 2.00E-08 AW886438.1 EST_HUMAN MR6-OT0080-240200-001-g08 OT0080 Hon 5803 10928 3.7 2.00E-08 AW886438.1 EST_HUMAN MR6-OT0080-240200-001-g08 OT0080 Hon 5803 10928 3.7 2.00E-08 AW886438.1 EST_HUMAN MR6-OT0080-240200-001-g08 OT0080 Hon 5803 10928 3.7 2.00E-08 AW886438.1 EST_HUMAN MR6-OT0080-240200-001-g08 OT0080 Hon 5803 10928 3.7 2.00E-08 AW886438.1 EST_HUMAN MR6-OT0080-240200-001-g08 OT0080 Hon 5803 10928 3.7 2.00E-08 AW886438.1 EST_HUMAN MR6-OT0080-240200-001-g08 OT0080 Hon 5803 10928 3.7 2.00E-08 AW886438.1 EST_HUMAN MR6-OT0080-240200-001-g08 OT0080 Hon 5803 10928 3.7 2.00E-08 AW886438.1 EST_HUMAN MR6-OT0080-240200-001-g08 OT0080 Hon 5803 10928 3.7 2.00E-08 AW886438.1 EST_HUMAN MR6-OT0080-240200-001-g08 OT0080 Hon 5803 10928 3.7 2.00E-08 AW886438.1 EST_HUMAN MR6-OT0080 Hon 5803 10928 3.0 2.00E-08 AW886438.1 EST_HUMAN MR6-OT0080 Hon 5803 10928 3.	EST HUMAN		2,00E-08 /	3.7	10929	5803	<b>4</b> 2
10276 15344 7.2 3.00E-08 AA191195.1 EST_HUMAN 2q45d05.r1 Stratagene hNT neuron (#93723 10276 15345 7.2 3.00E-08 AA191195.1 EST_HUMAN 2r87f06.x1 NCI_CGAP_Lu26 Homo sapiens 5393 5.4 2.00E-08 AW302996.1 EST_HUMAN 2r87f06.x1 NCI_CGAP_Lu26 Homo sapiens 2w48f07.r1 Soares_total_fetus_Nb2HF8_9w 5416 2.7 2.00E-08 AA425598.1 EST_HUMAN Similar to contains Alu repetitive element;cor 5653 10777 0.5 2.00E-08 AF198349.1 NT Gailus gallus Dach2 protein (Dach2) mRNA, 5653 10777 0.5 2.00E-08 AF198349.1 NT Gailus gallus Dach2 protein (Dach2) mRNA, 5653 10777 0.5 2.00E-08 AF198349.1 NT Gailus gallus Dach2 protein (Dach2) mRNA, 5653 10777 0.5 2.00E-08 AF198349.1 NT Gailus gallus Dach2 protein (Dach2) mRNA, 5653 10777 0.5 2.00E-08 AF198349.1 NT Gailus gallus Dach2 protein (Dach2) mRNA, 5653 10777 0.5 2.00E-08 AF198349.1 NT Gailus gallus Dach2 protein (Dach2) mRNA, 5653 10777 0.5 2.00E-08 AF198349.1 NT Gailus gallus Dach2 protein (Dach2) mRNA, 5653 10777 0.5 2.00E-08 AF198349.1 NT Gailus gallus Dach2 protein (Dach2) mRNA, 5653 10777 0.5 2.00E-08 AF198349.1 NT Gailus gallus Dach2 protein (Dach2) mRNA, 5653 10777 0.5 2.00E-08 AF198349.1 NT Gailus gallus Dach2 protein (Dach2) mRNA, 5653 10777 0.5 2.00E-08 AF198349.1 NT Gailus gallus Dach2 protein (Dach2) mRNA, 5653 10777 0.5 2.00E-08 AF198349.1 NT Gailus gallus Dach2 protein (Dach2) mRNA, 5653 10777 0.5 2.00E-08 AF198349.1 NT Gailus gallus Dach2 protein (Dach2) mRNA, 5653 10777 0.5 2.00E-08 AF198349.1 NT Gailus gallus Dach2 protein (Dach2) mRNA, 5653 10777 0.5 2.00E-08 AF198349.1 NT Gailus gallus Dach2 protein (Dach2) mRNA, 5653 10777 0.5 2.00E-08 AF198349.1 NT Gailus gallus Dach2 protein (Dach2) mRNA, 5653 10777 0.5 2.00E-08 AF198349.1 NT Gailus gallus Dach2 protein (Dach2) mRNA, 5653 10777 0.5 2.00E-08 AF198349.1 NT Gailus gallus Dach2 protein (Dach2) mRNA, 5653 10777 0.5 2.00E-08 AF198349.1 NT Gailus gallus Dach2 protein (Dach2) mRNA, 5653 10777 0.5 2.00E-08 AF198349.1 NT Gailus gallus Dach2 protein (Dach2) mRNA, 5653 10777 0.5 2.00E-08 AF198349.1 NT Gailus gallus Dach2 protein (Dach2	HOMAN	L		3.7	10928	5803	3
10276 15344 7.2 3.00E-08 AA191195.1 EST_HUMAN 2q45d05.r1 Stratagene hNT neuron (#93723 10276 15345 7.2 3.00E-08 AA191195.1 EST_HUMAN 2r87f06.x1 NCI_CGAP_Lu26 Homo saplens 5393 5.4 2.00E-08 AW302996.1 EST_HUMAN 2r87f06.x1 NCI_CGAP_Lu26 Homo saplens 2r48f07.r1 Soares_total_fetus_Nb2HF8_9w similar to contains Alu repetitive element;cor 5416 2.7 2.00E-08 AA425598.1 EST_HUMAN				0.5	10777	5653	488
10276 15344 7.2 3.00E-08 AA191195.1 EST_HUMAN Zq45d05.r1 Stratagene hNT neuron (#93723 10276 15345 7.2 3.00E-08 AA191195.1 EST_HUMAN Zr87f06.x1 NCI_CGAP_Lu26 Homo sapiens 5393 5.4 2.00E-08 AW302996.1 EST_HUMAN Zr87f06.x1 NCI_CGAP_Lu26 Homo sapiens 2w48f07.r1 Soares_total_fetus_Nb2HF8_9w similar to contains Alu repetitive element;cor	HUMAN			2.7		5416	223
10276 15344 7.2 3.00E-08 AA191195.1 EST_HUMAN 745d05.r1 Stratagene hNT neuron (#93723 10276 15345 7.2 3.00E-08 AA191195.1 EST_HUMAN 767f06.x1 NCI_CGAP_Lu26 Homo sapiens 5393 5.4 2.00E-08 AW302996.1 EST_HUMAN 767f06.x1 NCI_CGAP_Lu26 Homo sapiens							
10276 15344 7.2 3.00E-08   AA191195.1   EST_HUMAN   zq45d05.r1 Stratagene hNT neuron (#93723	HUMAN			5.4		5393	188
10276 15344 7.2 3.00E-08 AA191195.1 EST_HUMAN	HUMAN			7.2	15345	10276	5184
zo45d05.r1 Stratagene hNT neuron (#93/23	<u>.</u>			7.2	15344	10276	5184
2045d05.r1 Stratagene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:632649 5'		- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EST LEST LEST LEST LEST LEST LEST LEST L	AA191195.1 EST   AA425598.1 EST   AA425598.1 EST   AA425598.1 EST   AA425598.1 EST   AVA886438.1 EST   AVA886438.1 EST   AVA886438.1 EST   AVA886438.1 EST   AVA270271.1 EST   AVA270271.1 EST   AVA2280 SWIS O42280 SWIS O42280 SWIS O42280 SWIS O42280 SWIS O42280 SWIS O42668.1 NT AVA59040.1 EST   AVA59040.1 EST   AVA59040.1 EST   BE141959.1 EST   BE246844.1 EST   AL163279.2 NT AL163279.2 NT BE012076.1 NT	3.00E-08 AA191195.1 EST_H 3.00E-08 AA191195.1 EST_H 2.00E-08 AA425598.1 EST_H 2.00E-08 AV302996.1 EST_H 2.00E-08 AV3024364.1 EST_H 2.00E-08 AV270271.1 EST_H 2.00E-08 AV270271.1 EST_H 2.00E-08 AV270271.1 EST_H 2.00E-08 AV270271.1 EST_H 2.00E-08 AV3024364.1 EST_H 2.00E-08 AV3024364.1 EST_H 2.00E-08 AV3024364.1 EST_H 2.00E-08 AV3024364.1 EST_H 2.00E-08 BE246844.1 EST_H 1.00E-08 BE246844.1 EST_H 1.00E-09 BE012076.1 EST_H 1.00E-09 BE01	7.2 3.00E-08 AA191195.1 EST_H 7.2 3.00E-08 AA191195.1 EST_H 5.4 2.00E-08 AA25598.1 EST_H 0.5 2.00E-08 AF198349.1 NT 0.7 2.00E-08 BE280477.1 EST_H 0.9 2.00E-08 BE280477.1 EST_H 0.9 2.00E-08 AW270271.1 EST_H 0.8 2.00E-08 AW813620.1 EST_H 0.8 2.00E-08 AW813620.1 EST_H 0.8 2.00E-08 AW459040.1 EST_H 0.8 2.00E-08 AW459040.1 EST_H 0.8 2.00E-08 BE246844.1 EST_H 0.9 2.00E-08 BE246844.1 EST_H 0.9 0.00E-09 BE246844.1 EST_H 0.9 0.00E-	10276 15344 7.2 3.00E-08 AA191195.1 EST_H 10276 15345 7.2 3.00E-08 AA191195.1 EST_H 5393 5.4 2.00E-08 AA49302996.1 EST_H 5653 10777 0.5 2.00E-08 AA425598.1 EST_H 5663 10928 3.7 2.00E-08 AA425598.1 EST_H 5633 10928 3.7 2.00E-08 AA425598.1 EST_H 5633 10928 3.7 2.00E-08 BE280477.1 EST_H 5630 10928 3.7 2.00E-08 BE280477.1 EST_H 56930 1.34 2.00E-08 AA425598.1 EST_H 56930 1.34 2.00E-08 AA425598.1 EST_H 56930 1.34 2.00E-08 AA425698.1 EST_H 56930 1.34 2.00E-08 AA42580 SWIS 8320 13434 6.0 2.00E-08 AA42580 SWIS 8920 1.7 2.00E-08 AA459040.1 EST_H 56930 1.1 1.00E-08 BE28040.1 EST_H 56930 1.1 1.00E-08 BE28084.1 EST_H 56930 1.1 1.00E-08 BE28684.1 EST_H 56930 1.1 1.00E-08 BE28687.1 INT_H 56930 1.1 1.1 1.00E-08 BE28684.1 EST_H 56930 1.1 1.1 1.00E-08 BE28687.1 INT_H 56930 1.1 INT_H

MR0-SN0040-050500-002-c07 SN0040 Homo sapiens cDNA	EST_HUMAN	AW867740.1	9.00E-10 /	0.6	11580	217	1287
zh35b03.s1 Soares_pineal_gland_N3HPG Homo sapiens cDNA clone iMAGE:414029 3' similar to contains Alu repetitive element;contains element MER22 repetitive element;	EST_HUMAN	AA719297.1	1.00E-09	4.3		9804	4692
MYOSIN LIGHT CHAIN KINASE, SMOOTH MUSCLE AND NON-MUSCLE ISOZYMES (MLCK) [CONTAINS: TELOKIN]	SWISSPROT	P11799	1.00E-09	1.2	13206	8100	2949
Homo sapiens nucleolar phosphoprotein B23 (NPM1) mRNA, complete cds	NT	M28699.1	1.00E-09	3,3	13147	8046	2895
Homo sapiens nucleolar phosphoprotein B23 (NPM1) mRNA, complete cds	NT	M28699.1	1.00E-09	3.3	13146	8046	2895
Homo sapiens basic transcription factor 2 p44 (btf2p44) gene, partial cds, neuronal apoptosis inhibitory protein (naip) and survival motor neuron protein (smn) genes, complete cds	NT	U80017.1	1.00E-09	1.5	13112	8011	2860
qy64e11.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2016812 3' similar to contains MER12.12 MER12 repetitive element;	EST_HUMAN	AI356086.1	1.00E-09	0.9		7552	2453
	NT	AJ229041.1	1.00E-09	1.0		6742	1616
_	NT	5031624 NT	1.00E-09	0.9	11383	6231	1093
Homo saplens CCAAT-box-binding transcription factor (CBF2) mRNA	NT	5031624 NT	1.00E-09	0.9	11382	6231	1093
258.1 KDA PROTEIN C210RF5 (KIAA0933)	SWISSPROT	Q9Y3R5	2.00€-09	0.8	12591	7384	2278
DKFZp761B1710_r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761B1710 5'	EST_HUMAN	AL118573.1	2.00E-09	3.8		6763	1637
Homo sapiens chromosome 21 segment HS21C084	NT	AL163284.2	2.00E-09	1.8	11527	6366	1237
H.saplens PADPRP-I gene for NAD(+) ADP-ribosyltransferase	NT	X16674.1	2.00E-09	0.9		5946	795
258.1 KDA PROTEIN C210RF5 (KIAA0933)	SWISSPROT	Q9Y3R5	3.00€-09	1.5	14620	9531	4411
Homo sapiens eukaryotic initiation factor 4AI (EIF4A1) gene, partial cds	NT	AF175325.1	3.00€-09	3.2	14540	9452	4329
hu09e09.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3166120 3' similar to contains MER18.t3 MER18 repetitive element :	EST_HUMAN	BE222239.1	3.00E-09	1.1	13540	8432	3287
PROTEIN MOV-10	SWISSPROT	P23249	3.00€-09	1.1	12903	7704	2614
hu09e09.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3166120 3' similar to contains MER18.13 MER18 repetitive element :	EST_HUMAN	BE222239.1	3.00€-09	1.3	12802	7602	2506
hu09e09.x1 NCI_CGAP_Lu24 Homo saplens cDNA done IMAGE:3166120 3 similar to contains MER18.t3 MER18 repetitive element :	EST_HUMAN	BE222239.1	3.00E-09	1.4	12614	7406	2303
EST58385 Infant brain Homo sapiens cDNA 5' end similar to similar to heat shock protein, 90 kDa	EST_HUMAN	AA350878.1	4.00E-09	2.3	12683	7481	2379
Homo sapiens chromosome 21 segment HS21C085	NT	AL163285.2	4.00E-09	0.8		6095	949
Homo sapiens chromosome 21 segment HS21C082	NT	AL163282.2	4.00E-09	0.6		Т	510
RC2-HT0252-120200-014-h10 HT0252 Homo saplens cDNA	EST_HUMAN	5.00E-09 BE149264.1	5.00E-09	::	11689	6521	1394
PM1-HT0527-160200-001-h05 HT0527 Homo sapiens cDNA	EST_HUMAN	6.00E-09 BE169421.1	6.00E-09	4.4	15094		4906
n117a11.s1 NCI_CGAP_HSC1 Homo sapiens cDNA done IMAGE:1040924 similar to contains L1.t2 L1 repetitive element;	EST_HUMAN	AA557940.1	6.00E-09	==	14157	9074	3941
DKFZp434C0514_r1 434 (synonym: htes3) Homo saplens cDNA clone DKFZp434C0514 5'	EST_HUMAN	AL040439.1	6.00E-09	11		7218	2107
Homo saplens gene for enteric smooth muscle gamma-actin, exon 2, 3	Z	7.00E-09  D00649.1	7.00E-09	1.0	14768	9676	4558

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EST HUMAN DKFZp434N1317_r1 434 (synonym: h	1 00E 10 AI 041685 1			$\neg$	
EST_HUMAN QV2-T10003-161199-013-910 110003	1.00E-10 AW832912.1		13710	$\neg$	3456
L	.00E-10 AW852001.1	0.9 1.00		Т	2537
L				_	1492
	2.00E-10 U80017.1	2.1 2.00		5 6973	1855
SWISSTRO! WESCA CENTRATION	2.00E-10  P48988	1.4 2.00	10347	32 5241	3
SWISSPROT MAJOR CENTROMERE AUTOANTIGEN B (CENTROMERE PROTEIN B) (CENP-B)		1.4 2.00		$\Box$	3
	3.00E-10 AL163203.2	1.1 3.00		Т	4435
NT Homo sapiens chromosome 21 segment 1921 Cook	3.00E-10 AL163203.2		٦	Т	4435
EST_HUMAN to contains L1.11 L1 repetitive element	3.00E-10 N36113.1	0.6 3.00	11200	7 6044	897
EST HUMAN contains THR repetitive element:	4.00E-10 H01109.1	1.1 4.00	13498	8391	3244
N INDITIO September 18 Charles niacenta Nb2HP Homo sapiens cDNA clone IMAGE:149927 3' similar to	4.00E-10 AL163303.2	2.2 4.00	12824	7623	2527
T HUMAN		1.4 4.00	12264	7068	1951
EST_HUMAN IMAGE:1759049 3' similar to contains LTR8.b2 LTR8 repetitive element :	4,00E-10 AI221083.1	3.0 4.00		6 5309	106
SWISSPROI DITCIDE ICAE SERVE 30 100 Magain	5.00E-10 Q01033	1.5 5.00	13684	$\Box$	3430
		1.5 5.00			744
EST_HUMAN RC3-C10254-031035-012-812-01025-	6.00E-10 AW853719.1	2.5 6.00		┑	4634
			12934	Т	2644
	6.00E-10 AJ400877.1	1.0 6.00	11198		895
NT H.saplens DHFR gene, exon 3	7.00E-10 X00856.1	Ц	13300	$\neg$	3049
Ц	7.00E-10 P08547	6.1 7.00		7608	1974
SWISSPROT LINE-1 REVERSE TRANSCRIPTASE HOMOLOG	7.00E-10 Q13342	Ļ	11903	$\Pi$	1605
7706225 NT Homo sapiens I FA III MAPHOID-RESTRICTED HOMOLI			10977	$\Box$	686
		4.2 7.00E-10	10976	$\neg$	686
HUMAN	AA37683	2.8 8.00E-10	14314	7	4106
HUMAN		0.9 8.00E-10	13554	$\neg$	3300
	=-10 U63630.2	3.2 8.00E-10	10467	T	<u></u>
THUMAN	9.00E-10 AI870071.1	6.0 9.00	13064	7955	2803
3' similar to SW:RL29 HUMAN P47914 60S RIBOSOMAL PROTEIN L29 ;contains element		<del>,</del> .			

١				0.0	1240	000	944	_
	EST HUMAN	2 00E-11 AI150502.1	3 00E-11	٠ م	A 3 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	2	<u>.                                    </u>	_
			9.80	1		9303	41/8	Г
EST180120 Liver, hepatocellular carcinoma	EST HUMAN	AA309248.1	3 00E-11	7.7				Т
Mus musculus expressed in non-metastatic cells 2, protein (vinized) (vinized)	NT	6679077 NT	3.00E-11	0.8	11777	6603	1476	Т
HUMSUPY069 Human brain CUNA norma sapieris cura derie des	EST HUMAN	D44666.1	4.00E-11	1.4	14728	9637	4518	Т
ZU01b12.r1 Soares tesus NTI TOUTO septents contra solice (TRA Contra Society Cont	EST HUMAN	AA436042.1	4.00E-11	1.4		6507	1380	Т
ALDERYDE OXIDAGE	SWISSPROI	P48034	5.00E-11	1.5	14343	926 <u>1</u>	4135	1
Sollia T 1 2 Billion	SI	AL163283.2	5.00E-11	1.5	10320	5219	3320	Т
Homo sapistis Circuitoscine 21 segment HS21C083	Z	AL163283.2	5.00E-11	0.9	10320	5219	=	7
Indition of process 21 segment HS21C083	N	M55270.1	6.00E-11	1.8	10713	5574	406	7
Library matrix (its protein (MCP) gene complete cds	N	M552/0.1	6.00E-11	1.8	10712	5574	406	7
Human matrix Gla protein (MGP) gene, complete cds	EG L. IOMENIA	-	/.UUE-11	0.8	11734	6558	1431	
			8.00E-11	4.0	14173	9090	3957	_
ww46e06.s1 Weizmann Olfactory Epithelium Homo sapiens cDNA clone IMAGE:255298 3'				6	14112	9017	300	Т
tm54c09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA Gone IMAGE: 2101800 3	EST HUMAN	AI478617.1	8.00E-11	28	3 3		200	Т
similar to contains L1 repetitive element;	EST_HUMAN	H19971.1	8.00E-11	10.0		800	3078	_
agridio 13 - Casangonio Comine Standard Homo sanians cDNA clone IMAGE:172173 3'	EST_LICIANIA	AA//5985.1	9.001-11	1.2	14611	9521	4400	٦
as 78m1 s.1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:970297 3'	EST HUMAN		9.00E-11	2.3	13597	84 85	3337	
DKFZp547D225_r1 547 (synonym: hfbr1) Homo saplens cDNA clone DKFZp547D225 5'								1
DKFZp547D225_r1 547 (synonym: hfbr1) Homo sapiens cDNA clone DKFZp547D225 5	EST_HUMAN	AL134395.1	9.00E-11	2.3	13596	84 81	3337	Т
DKFZp547D225_r1 547 (synonym: hfbr1) Homo sapiens cDNA clone UKrZp547U225 5	EST_HUMAN	AL134395.1	9.00E-11	2.0	12376	7169	2057	
DKFZp547D225_r1 547 (synonym: htbr1) Homo sapiens culve civile DKFZp547D225_r1 547 (synonym: htbr1) Homo sapiens culve civile DKFZp547D225_r1	EST_HUMAN	AL134395.1	9.00E-11	2.0	12375	7169	2057	
	EST_HOWEN	BE145600.1	9.00E-11	1.2	10574	\$ <del>1</del>	261	
III 2-HT0203-291099-016-c08 HT0203 Homo sapiens cDNA	DOT LIMAN	3		0.0		10240	5145	Γ
H.sapiens DMA, UMB, HLA-Z1, IFFZ, LMI-Z, 10F1, LIMI-7, 10F2, UOC, UTERS	N	X87344.1	1 005-10	0 0				$\neg$
Human pregnancy-specific glycopiotein bear 1 (or 1) in the 1 TAP2 DOR DOR2 and RING8.	NT	M30629.1	1.00E-10	2.1		9206	4079	٦
Homo sapiens PCCX1 mixiva for protein Containing Coxx3 community	S	1.00E-10 AB031069.1	1.00E-10	2.3	14256	9170 70	4 04 22	Т
(CAMKI), creatine transporter (CRTR), CDM protein (CDM), adrenoleukodystrophy protein > (CAMKI), creatine transporter (CRTR), CDM protein (CDM), adrenoleukodystrophy protein >	NT		1.00E-10 U52111.2	4.5	14249	<u>\$</u>	4036	
Son and the son of the	-		1.000-10 002111.2	4.5	14248	9162	4036	Τ
Homo saplens X28 region near ALD locus containing dual specificity phosphatase 9 (DUSP9), ribosomal protein L18a (RPL18a), Ca2+/Calmodulin-dependent protein kinase i (CAMKI), creatine transporter (CRTR), CDM protein (CDM), adrenoleukodystrophy protein >	27							
gene, complete cds	NT	AF213884.1	1.00E-10	5.4		9067	3933	
Homo sablens nuclear factor of kappa light polypeptide gene enhancer in 8-cells 1 (NFKB1)								]

			П	$\dot{\sqcap}$				T	Т	Т	Ţ	T		T	٦	$\neg$		T	T	T						T	T	T							1
3126	245	244	5171	3666	3344	1027	4252		4562	2922	3798	3798	3454 454	2079	1838	1483	1249	8811			4061	4851	4501	3452		3284	3160	2737	1600		1596	1596		1 2 2	1168
8275	5433	5433	10265		8488	6167	9377	Т	7	8073	8935	8935	8595	7191	6957	6610	6378	85	332	5816	0084	9958	9621	8593		8429	8309	7821	6727		6722	6722		6302	6302
13380	10559	10559		13899	13602	11322	14457		14773	13181	14029	14028	13706	12394			11537	11400	11/86	1994	15136					13537	13421	13025	11897		11892	11891		11459	11458
2.2		1.2	0.8				7.9		2.8	8.0	27.7	27.7	1.3	1.1	1.2	0.7	1.6	0.0	00	1.2	1.3	5.5	1.0	1.0		0.9	4.2	::	1.0		1.4	1.4		1.2	1.2
4.00E-12		4.00E-12	5.00E-12	5.00E-12	5.00E-12	5.00E-12	6.00E-12		7.00E-12 Q05904	9.00E-12	1.00E-11	1.00E-11	1.00€-11	1.00E-11	1.00E-11		1.00E-11	1.00	1 00E-11		2.00E-11	2.00E-11	2.00E-11	2.00E-11		2.00E-11	2.00E-11 P10263	2.00E-11	2.00E-11		2.00E-11	2.005-11		2.00E-11	2.00E-11 R24807.1
Q04791	AA700326.1	AA700326.1	AA/20601.1	AJZ/1/36.1	BE047779.1	T06573.1	AA732516.1		Q05904	P20742	AB001523.1	AB001523.1	BE004315.1	AF000573.1	AB030947.1	AF119914.1	AA489871.1		1 00E-11 AL163279.2	AJ131016.1	AA307331.1	2.00E-11 BE002330.1	2.00E-11 AL163221.2	2.00E-11  AF020503.1		AI478617.1	P10263	AF087913.1	Al126371.1		L17432.1	L1/432.1	47499	R24807.1	24807.1
OWIGOPRO	EST_HUMAN	EST_HUMAN	EST DOMENT	N.	EST TOWAR		EST_HUMAN		SWISSPROT	SWISSPROT	3	NT	ESI_HUMAN		2	NT	EST_HUMAN		NT	NT	EST_HUMAN	EOI_LOWS		NIT -	<u>.</u>	EST_HUMAN		NT	EST_HUMAN		4		F	EST_HUMAN	EST_HUMAN
	3' FATTIV ACYL COA LYDBOL ASE PRECLIRSOR MEDIUM CHAIN (THIOESTERASE B)	3' And 1 1 Spaces fetal liver spiege 1NFLS S1 Homo sapiens cDNA clone IMAGE:460676	1774-11 s1 Spares fetal liver spleen 1NFLS S1 Homo saplens cDNA clone IMAGE:460676	north sapiets on possessions of the control of the	Land positions Value in the region segment 2/2	ES 104402 Feldi Didiii, Suddeysiris (Carroccas) 1977 SE 10402 Feldi Didiii (Carrocc	contains Alu repetitive element;	nz88f11.s1 NCI_CGAP_GCB1 Homo sapiens cunn cone introce. 1302013 3 Similar 32	34 KD SPICULE MAIRIX PROTEIN PROCORDED (1997)	PREGNANCY ACME PACIFIES PRECIDENCE (1984)	Homo sapiens gene for I MEMI allo F WF 2, will place allo parties with parties and	Homo sapiens gene for I McMi and DWD2 complete and partial cols	CMC-BNO 100-170300-252-012 bits for its indicate and partial ods	Homo sapiens nonrogeniusais 1,2-dioxygenius geniens cDNA	Ratus (in regions in regions) 1.2 Alowineness gene complete cds	Homo sapiens PROSO/O IIInver, will please were proposed in the proposed of the	similar to contains OFR.12 MER10 repetitive element;	ab01b12.r1 Stratagene fetal retina 937202 Homo saplens cDNA clone IMAGE:839519 5	Homo sapiens chromosome 21 segment HS21C079	Homo sapiens SCL gene locus		EST178226 Colon carcinoma (HCC) cell line Homo sapiens cDNA 5' end similar to similar to	OV.2. BT0258-281099-014-a01 BT0258 Homo sapiens cDNA	Homo sanians chromosome 21 segment HS21C027	Homo sapiens FRA3B common tragile region, clausinosino diprinoprimo il principi di conservano e	IMD4QU9.X1 NCI CGAT NGT From September diphosphale hydrolase (FHIT)	RETROVIRUS-RELATED GAS FOLLTANCIET (ALIXING)	Human endogenous retrovirus MERV-F-1470	(HUMAN);contains L1.t1 L1 repetitive element;	gc51c10.x1 Soares_pregnant_uerus_nunr o rionio septens con control de la similar to obt.L02932 PEROXISOME PROLIFERATOR ACTIVATED RECEPTOR ALPHA	like protein COR3'beta (COR3'beta) genes, complete cds	Callius marting the globin, beta-H globin, beta-A globin, epsilon-globin, and olfactory receptor-	Gallus gallus rho-globin, beta-H globin, beta-A globin, epsiloin-globin, and checker is constained in COR3'beta (COR3'beta) genes, complete cds	yg43e12.rd Soares Infant brain TNIB Homo sapietis COIN Gold instruction recentors	yg43e12.r1 Soares Infant brain 1NIB Homo sapiens cDNA cione IMAGE:35144 5

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173	2411	1824	3351	3280	1815	1815	2054	1796	700	700	3865	3575	3032	3032	<del>1</del> 9		117	4804	4804	4324	4288	4288	4025	4025	3421	2864	2864	600	600		420	4520	3126
5366			8495	8425	6934	6934	7166	6916	5855		9001	T	П	$\neg$	7061	5	5317	9914	9914		8015	8015	9153	9153	8563	8015	8015	5758	5758		5209	1	8275
					12124	12123	12372	12102	10991	10990	14102		13285	13284		100	10446	15006	15005		13118	13117	14237	14236	13675	13118	13117	10878	10877		0310	14730	13381
1.3	0.6	1.1	1.5	1.1	1.8	1.8	6.7	1.4	1.7	1.7	1.2	1.1	1.2	1.2	0.7		0.6	0.8	0.8	1.8	3.3	3.3	1.0	1.0	1.0	1.4	1.4	1.3	1.3		1.3	0.9	2.2
3.00E-13	4.00E-13	4.00E-13	5.00E-13	5.00E-13	5.00E-13	5.00E-13	6.00E-13	8.00E-13	8.00E-13	8.00E-13	9.00E-13	9.00€-13	1.00€-12	1.00E-12	1.00E-12		1.00E-12	2.00E-12	2.00E-12	2.00E-12	2.00E-12	2.00E-12	2.00E-12	2.00E-12	2.00E-12	2.00€-12	2.00E-12	3.00E-12	3.00E-12		3.00E-12	4.00E-12	4.00E-12
AF003528.1	AF003529.1	AW378614.1	AA435773.1	R78338.1	Q04899	Q04899	AL163207.2	U80017.1	U29185.1	U29185.1	AB029900.1	9.00E-13 AJ271735.1	AF000991.1	AF000991.1	Al871726.1		AW627674.1	070306	O70306	BE063509.1	AW341809.1	AW341809.1	J01884.1	J01884.1	6754495	AW341809.1	AW341809.1	AW341683.1	AW341683.1		042163	A1689984.1	Q04791
NT	Z	EST HUMAN	h .	EST_HUMAN	SWISSPROT	SWISSPROT	NT.	NT	N	3	3	Y,	N <sub>1</sub>	NT	EST_HUMAN		EST HUMAN	SWISSPROT	SWISSPROT	EST_HUMAN	EST_HUMAN	EST_HUMAN	Z	T		EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN		SWISSPROT	EST_HUMAN	SWISSPROT
fianking repeat regions	Homo sapiens glypican 3 (GPC3) gene, parual cos and tranking repeat regions			yi82l04.r1 Soares piacenta NoZHF Homo sapiens CUNA conte invage. 143/03/0	SEXINE/ HARCONNE-TACHEN ANABE TO ANABE SINAPPROPRIES	SERINETHREONINE-PROTEIN KINASE PCI AIRE-3	Homo sapiens chromosome 21 segment HSZ1CUU/	Homo sapiens basic transcription factor 2 p44 (btf2p44) gene, partial cds, neuronal apoptosis inhibitory protein (naip) and survival motor neuron protein (smn) genes, complete cds	Homo sapiens priori protein (FIF) gene, complete cus	-	1=	Homo sapiens Xq pseudoautosomal region; segment 1/2	Homo sapiens testis-specific Testis Transcript Y 2 (TTY2) mRNA, paruai cos	Homo sapiens testis-specific Testis Transcript Y 2 (TTY2) mRNA, partial cos	contains L1.b3 L1 repetitive element;	wm54f07 v1 NCI CGAP 11/2 Homo saniens cDNA clone IMAGE:2439493 3' similar to	hh90a09.x1 NCI_CGAP_GU1 Homo sapiens CDNA Clone IMAGE:2970040 3 similar to contains MER18.t1 MER18 repetitive element;	TBX15 PROTEIN (T-BOX PROTEIN 15)	TBX15 PROTEIN (T-BOX PROTEIN 15)	CM0-BT0281-031199-087-a03 BT0281 Homo sapiens CUNA	ha02d05x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2872521 3	ha02d05x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:28/2521 3	Rat U3A small nuclear RNA	Rat U3A small nuclear RNA	Mus musculus keratin-associated protein 6.2 (Krapt-2), MKNA	ha02d05x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:28/2521 3	ha02d05x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:26/2021 3	hd13d01.x1 Soares_NFL_T_GBC_S1 Homo sapiens curva cione invisorzeres.// 3 sillillion TR:014517 014517 SMRP.;	to TR:014517 014517 SMRP.;	hd13d01.x1 Soares NFL T GBC S1 Homo sapiens cDNA clone IMAGE:2909377 3' similar	COCHLIN PRECURSOR (COCH-5B2)	b26h05.x1 NCL_CGAP_Lu24 Homo sapiens cDNA done IMAGE:2270745 3: Similar to TR:Q13539 Q13539 MARINER TRANSPOSASE.;	FATTY ACYL-COA HYDROLASE PRECURSOR, MEDIUM CHAIN (THIOESTERASE B)

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511	5114	4861		363	1611	3872	3453	4650	3728	000	3073	2725	2451	33	330	1976	1314	1228	870	288	4488	4019	239	<u>:</u>		3150	2429	2319	£27	
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10 15289	Γ	Τ.		1 10672	-	8	4	2 14857	5 13958	1 10637	13322	13014		10638	10637	.12293	11609		11178	10604	14701		10556	10470				12631		
1.0				3.5	=	2.8	1.6			1.0	3.7	1.7		1.0	1.0	0.8	1.3	1.2	1.5	1.4	1.5	1.7	1.3	1.0		2.9	15	1.3	1.4	
0.005-14	$\downarrow$	6.00E-14		6.00E-14	7.00E-14	0.000	8.00	9.002	9.00	9.00E-	9.00E-14	9.00₺-	9.00E	9.00E-14	9.00E-14	1.00E-13	1.00E-13	1.00E-13	1.00E-13	1.005-13	2.00E-13	2.00E-13	2.00E-13	2.00E-1		3.00E-1	3.00E-1	3.00₺-10	3.00	2 22 4 2
	1	1000	T90961.1	-14 AF020503.1	-14 AW151673.1	14 100000	- 1	8.00E-14 AU002100:1	9.00E-14  D14547.1	9.00E-14 AA781159.1	14 AW513290.	9.00E-14 AVV313280.	9.00E-14 AW8613//.1	14 AA781159.1	14 AA781159.1	3 AA720574.1	3 X87344.1	3 AL 1002 10.5			_	_				3.00E-13  AA/ 43074.1	3.00E-13 AL 1032 10.2	3.00E-13 AJZ/ 1/30.1	3.00E-13 A 1374736 1	1 0150574
	8923548 NT	8923548 NT	EST HUMAN	NT	1 EST_HUMAN				N. I.			E07	EST HUMAN		EST_HUMAN	EST_HUMAN	NT		Z	Z,	2 2		N17 -	Z	i		FST HUMAN	N i		EST HUMAN
	Homo sapiens hypothetical protein FLJ20000 (FLJ2000),	Ц		gene, exon 5					Saguinus oedipus gene for seminal vesicle secreted protein seminilogenin		_1					_l_		H.sapiens DMA, DMB, HLA-21, IPP2, LMP2, I AP1, LMP1, L	Homo saplens chromosome 21 segment HSZ1CU13		FGF-1=fibroblast growth factor 1 [human, kidney, Genomic, 342 nt, Segiment 2 or 2]		Homo sapiens chromosome 21 segment HS21C078	Chanto rento fibroblast growth factor receptor 4 mRNA, complete cds	(DUSP9), ribosomal protein L18a (RPL18a), Ca2+/Calmodulin-dependent protein knase i (DUSP9), ribosomal protein L18a (RPL18a), Cpa2+/Calmodulin-dependent protein > (CAMKI), creatine transporter (CRTR), CDM protein (CDM), adrenoleukodystrophy protein > (CAMKI), creatine transporter (CRTR), CDM protein (CDM), adrenoleukodystrophy protein > (CAMKI), creatine transporter (CRTR), CDM protein (CDM), adrenoleukodystrophy protein > (CAMKI), creatine transporter (CRTR), CDM protein (CDM), adrenoleukodystrophy protein > (CAMKI), creatine transporter (CRTR), CDM protein (CDM), adrenoleukodystrophy protein > (CAMKI), creatine transporter (CRTR), cdm   c		_	Homo saplens chromosome 21 segment HS21CU10		

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1703	1703	1558	4374	3811	2914	2358	2137	1956		1384	1384	1051	2840	2479	2416	2339	675	384	384	5157	5104	4844	4841		934	4194	3693	1835	1107	4985	602
ı	6826		9496	8948	8065	7460	7247	7073	Т	П	7	П	$\neg$	7577	7515	7441		5553		10252	10200	9951	T		6081		8832		_	10088	5760
	12007	11852	14583	14044	13173	12666	12453	12270		11676	11675	11342		12778			10960	10687	10686	15323		15039	15037		11237	14405		12140		15160	10880
1.2	1.2	1.0	1.7	2.0	1.4	2.3	2.2	7.8		2.8	2.8	1.3	1.0	1.2	1.1	1.4	2.2	1.4	1.4	1.5	1.2	13	0.8		0.7	1.0	0.9	2.4	0.6	1.1	1.3
9.00E-15	9.00E-15	9.00E-15	1.00E-14	1.00E-14	1.00E-14 P05227	1.00E-14	1.00E-14	1.00E-14		1.00E-14	1.00E-14	1.00E-14	2.00E-14	2.00E-14	2.00E-14	2.00E-14	2.00E-14	2.00E-14	2.00E-14	3.00E-14 P02894	3.00E-14	3.00E-14	3.00E-14		3.00E-14	4.00E-14	4.00E-14	4.00E-14	4.00E-14	5.00E-14	5.00E-14
AL163283.2	AL163283.2	7427522	AW275852.1	1.00E-14 AA682994.1	P05227	1.00E-14 AF001689.1	1.00E-14 AL163303.2	L44140.1				AL163246.2	P08548	AL 163209.2	7657529 NT	AW372868.1	AL163303.2	AJ271736.1	2.00E-14 AJ271736.1	P02894	BE466372.1	/656804 NI	AW265354.1		X95466.1	N46328.1	AA046502.1	AJ007973.1	P04928	AW073791.1	Q63120
NT	NT		EST HUMAN	EST_HUMAN	SWISSPROT	N <sub>T</sub>	NT	NT		NT	NT	NT	SWISSPROT	NT	NT	EST_HUMAN	NT	NT	T	SWISSPROT	EST_HUMAN	N	EST_HUMAN		NT	EST_HUMAN	EST_HUMAN	NT	SWISSPROT	EST HUMAN	SWISSPROT
Homo saplens chromosome 21 segment HS21C083	Homo saplens chromosome 21 segment HS21C083	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPRT), mRNA	xq39h10.x1 NCI_CGAP_Lu28 Homo sapiens cDNA clone IMAGE:2753059 3'	ae89c12.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:971350 3"	HISTIDINE-RICH PROTEIN PRECURSOR (CLONE PFHRP-II)	Homo sapiens ribosomal protein L23A (RPL23A) gene, complete cds	Homo saplens chromosome 21 segment HS21C103	dehydrogenase (G6PD) gene, complete cds's	Homo saplens chromosome X region from filamin (FLN) gene to glucose-6-phosphate	Homo sapiens chromosome 21 segment HS21C068	Homo sapiens chromosome 21 segment HS21C068	Homo sapiens chromosome 21 segment HS21C046	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG	Homo sapiens chromosome 21 segment HS21C009	Homo saplens rhabdold tumor deletion region protein 1 (RTDR1), mRNA	RC5-BT0377-091299-031-D12 BT0377 Homo sapiens cDNA	Homo sapiens chromosome 21 segment HS21C103	Homo sapiens Xq pseudoautosomal region; segment 2/2	Homo sapiens Xq pseudoautosomal region; segment 2/2	CIRCUMSPOROZOITE PROTEIN PRECURSOR (CS)	contains MER4.b2 MER4 repetitive element;	From Sapiens a distribution of the sapiene could be saved as sapiene could be saved as saved	contains Au repetitive element; contains element works repetitive element, .	xp45f12x1 NCI_CGAP_HN11 Homo saplens cDNA done IMAGE:2743343 3' similar to	R.norvegicus mRNA for CPG2 protein	yy73c12.s1 Soares_multiple_sclerosis_2NbHMSP Homo sapiens cDNA clone IMAGE:279190 3' similar to contains L1.t3 L1 repetitive element :	zk67a06.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:487858 5'	Homo sapiens LGMD2B gene	S-ANTIGEN PROTEIN PRECURSOR	xb03b05.x1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2575185 3 similar to contains L1.t2 L1 repetitive element;	CANALICULAR MULTISPECIFIC ORGANIC ANION TRANSPORTER 1 (MULTIDRUG RESISTANCE-ASSOCIATED PROTEIN 2) (CANALICULAR MULTIDRUG RESISTANCE PROTEIN)

12/228   12/28   10.6   10.0E-15   14.1952/7.2   1.7
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2126 7236 0.6 9.00E-15 AF196779.1 NT 978 6537 1.0 0.6 9.00E-15 BE281482.1 EST_HUMAN 978 6123 11260 2.1 6.00E-15 AL2731736.1 NT 978 6123 11260 2.1 6.00E-15 AL2731736.1 NT 978 6123 11260 2.1 6.00E-15 AL2731736.1 NT 978 6123 11260 2.0 5.00E-15 AL2731736.1 NT 978 6123 11260 2.0 5.00E-15 AL2731736.1 NT 978 6123 11260 2.0 5.00E-15 AL2731736.1 NT 978 6123 11260 112
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7236 0.6 9.00E-15 AF196779.1 NT 5637 1.0 8.00E-15 BE261482.1 EST_HUMAN 5637 10709 2.0 5.00E-15 AL163208.2 NT 5572 10709 2.0 5.00E-15 AL163208.2 NT 5572 10709 2.0 5.00E-15 AL163208.2 NT 5572 10709 2.0 5.00E-15 AL163208.2 NT 5210 10311 0.9 4.00E-15 AL163303.2 NT 5210 10311 0.9 4.00E-15 AL163303.2 NT 5210 10311 0.9 3.00E-15 H55611.1 EST_HUMAN 7702 3.0 4.00E-15 H55611.1 EST_HUMAN 7702 3.00E-15 P92485 10660 15131 0.9 3.00E-15 AA078097.1 EST_HUMAN 5 10060 15132 0.9 3.00E-15 AA078097.1 EST_HUMAN 5 10060 15132 0.9 3.00E-15 AA078097.1 EST_HUMAN 6 10060 15132 0.9 3.00E-15 AA078097.1 IST_HUMAN 6 10060 15132 0.9 3.00E-15 AA078097.1 IST_HUMAN 7 10 5438 10565 1.1 2.00E-15 AF223391.1 NT 8 10 5432 10673 1.1 2.00E-15 AF223391.1 NT 8 10 5432 10673 1.1 2.00E-15 AF223391.1 NT 8 10 5432 10674 1.1 2.00E-15 AF223391.1 NT
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7236 0.6 9.00E-15 AF196779.1 NT 5637 1.0 8.00E-15 BE261482.1 EST_HUMAN 6123 11280 2.1 6.00E-15 AL163208.2 NT 5572 10709 2.0 5.00E-15 AL163208.2 NT 7817 13022 1.4 5.00E-15 AL163208.2 NT 7817 13022 1.4 5.00E-15 AL163303.2 NT 5210 10311 0.9 4.00E-15 AL163303.2 NT 5210 10311 0.9 4.00E-15 H55611.1 EST_HUMAN 7702 3.0 4.00E-15 H55611.1 EST_HUMAN 7702 3.0 3.00E-15 N89452.1 EST_HUMAN 7703 9950 1.4 3.00E-15 AA078097.1 EST_HUMAN 7817 14252 0.8 3.00E-15 AA078097.1 EST_HUMAN 7818 10565 1.1 2.00E-15 AF223391.1 NT
7236 0.6 9.00E-15 AF196779.1 NT 5637 1.0 8.00E-15 BE261482.1 EST_HUMAN 6123 11280 2.1 6.00E-15 AL163208.2 NT 5572 10709 2.0 5.00E-15 AL163208.2 NT 7817 13022 1.4 5.00E-15 AL163208.2 NT 7865 1.0 5.00E-15 AL163303.2 NT 5210 10311 0.9 4.00E-15 AL163303.2 NT 5210 10311 0.9 4.00E-15 H55611.1 EST_HUMAN 7702 3.0 4.00E-15 H55611.1 EST_HUMAN 9 9167 14252 0.8 4.00E-15 N89452.1 EST_HUMAN 1 0.9 3.00E-15 N89452.1 EST_HUMAN 1 0.9 3.00E-15 AA078097.1 EST_HUMAN
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7236 0.6 8.00E-15 AF196779.1 NT 5637 1.0 8.00E-15 BE261482.1 EST_HUMAN 16123 11280 2.1 6.00E-15 AL163208.2 NT 5572 10709 2.0 5.00E-15 AL163208.2 NT 7817 13022 1.4 5.00E-15 JU91328.1 NT 6123 11280 2.1 6.00E-15 JU91328.1 NT 7817 13022 1.4 5.00E-15 JU91328.1 NT 5570 10311 0.9 4.00E-15 AL163303.2 NT 5210 10311 0.9 4.00E-15 AL163303.2 NT 5210 10311 0.9 4.00E-15 H55611.1 EST_HUMAN 1702
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7236 0.6 9.00E-15 AF196779.1 NT 5637 1.0 8.00E-15 BE261482.1 EST_HUMAN (6123 11280 2.1 6.00E-15 AL163208.2 NT 5572 10709 2.0 5.00E-15 AL163208.2 NT 7817 13022 1.4 5.00E-15 U91328.1 NT 7817 13022 1.4 5.00E-15 AW296817.1 EST_HUMAN (8565 10.01 0.9 4.00E-15 H55611.1 EST_HUMAN (9702 10.01 0.01 0.01 0.01 0.01 0.01 0.01 0
7236 0.6 9.00E-15 AF196779.1 NT 5637 1.0 8.00E-15 BE261482.1 EST_HUMAN 6123 11280 2.1 6.00E-15 AL163208.2 NT 5572 10709 2.0 5.00E-15 AL163208.2 NT 7817 13022 1.4 5.00E-15 U91328.1 NT 8565 1.0 5.00E-15 AV296817.1 EST_HUMAN 5270 10311 0.9 4.00E-15 AL163303.2 NT
7236 0.6 9.00E-15 AF196779.1 NT 5637 1.0 8.00E-15 BE261482.1 EST_HUMAN 5637 2.1 6.00E-15 AL163208.2 NT 5672 10709 2.0 5.00E-15 AL163208.2 NT 7817 13022 1.4 5.00E-15 AW296817.1 EST_HUMAN 8565 1.0 5.00E-15 AW296817.1 EST_HUMAN
7236 0.6 9.00E-15 AF196779.1 NT 5637 1.0 8.00E-15 BE261482.1 EST_HUMAN 6123 11280 2.1 6.00E-15 AL163208.2 NT 5572 10709 2.0 5.00E-15 AL163208.2 NT 7817 13022 1.4 5.00E-15 U91328.1 NT
7236 0.6 8.00E-15 AF196779.1 NT 5637 1.0 8.00E-15 BE261482.1 EST_HUMAN 6123 11280 2.1 6.00E-15 AJ271736.1 NT 5572 10709 2.0 5.00E-15 AL163208.2 NT
7236 0.6 9.00E-15 AF196779.1 NT 5637 1.0 8.00E-15 BE261482.1 EST_HUMAN 56123 11280 2.1 6.00E-15 AJ271736.1 NT
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5390	6569	6104	8954	6141	8818	9468	5583	5371	Г		7439	6102	9011	9010	900	Т		6563	5632	5624	5324	5324	10190	9177		8553		7431	7	7736	6604	7205	9524	10184
10518		11262			13911	14556		10495	14296						1.000	1020	42000	11739			10457	10456	15269	14261	14260	13661	12640	12639		12936	11778		14614	15263
1.6	1.2	0.9	0.9	0.6	2.5	1.2	7.6	0.9	1.3	0.6	1.0	1.2	1.0	8.2	=		<b>.</b>	0.7	0.6	1.5	0.5	0.5	1.0	3.6	3.6	3.9	1.3	1.3	1.3	0.7	1.1	3.0	1.0	1.2
6.00E-17	7.00E-17	7.00E-17	8.00E-17	8.00E-17	9.00E-17	1.00E-16	1.00E-16	1.00E-16	2.00E-16	2,00E-16	2.00E-16	2.00E-16	3.00E-16	3.00€-16	3.000-10	3 000	3 005-18	3.00E-16 Q28983	3.00E-16	3.00E-16	3.00E-16	3.00E-16	4.00E-16	4.00E-16	4.00E-16	4.00E-16	4.00E-16	4.00E-16	4.00E-16	5.00E-16	5.00E-16	6.00E-16	9.00E-16	1.00E-15
AW983880.1	6753097	Q91081	AL163280.2	AW880701.1	AW900048.1	P10272	AA628592.1	AF200719.1	X89211.1	J03061.1	AA621761.1	AL163279.2	U03887.1	AF020503.1	00232133.1	DE050400 4	000500	Q28983	AF135446.1	AL046445.1	3.00E-16 AW022862.1	3.00E-16 AW022862.1	P08548	BE083875.1	BE083875.1	Q16653	AW797168.1	AW797168.1	AB001523.1	AA992176.1	AJ251154.1	AW972611.1	4503168	AI984928.1
EST_HUMAN	-	SWISSPROT	NT	EST_HUMAN	EST_HUMAN	SWISSPROT	EST_HUMAN	N N	N.	3	EST_HUMAN	NT	NT	Z <sub>I</sub>	EQ. 110MA		SWISSPROT	SWISSPROT	NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	SWISSPROT	EST_HUMAN	EST_HUMAN	SWISSPROT	EST_HUMAN	EST_HUMAN	NT	EST_HUMAN	NT	EST_HUMAN	NT	EST_HUMAN
RC1-HN0003-220300-021-b04 HN0003 Homo saplens cDNA	Mus musculus apolipoprotein B editing complex 2 (Apobec2), mRNA	ALPHA-2 ADRENERGIC RECEPTOR (ALPHA-2 ADRENOCEPTOR)	Homo sapiens chromosome 21 segment HS21C080	QV0-OT0032-080300-155-d01 OT0032 Homo saplens cDNA	CM1-NN1003-200300-153-e01 NN1003 Homo sapiens cDNA	POL POLYPROTEIN (CONTAINS: PROTEASE; REVERSE TRANSCRIPTASE; ENDONUCLEASE)			H.sapiens DNA for endogenous retroviral like element		af06d04.s1 Soares_testis_NHT Homo sapiens cDNA done IMAGE:1030855 3'	Homo saplens chromosome 21 segment HS21C079	Human BXP20 gene	gene, exon 5	Homo sprians ERA3R common frantis racion diadenneine triphosphate hydrolase (FHIT)	PO1442742014 NILL MOO 18 Lomo regulare CONA clone IMAGE: 3354201 5	ENVELOPE GLYCOPROTEIN GP340 (MEMBRANE ANTIGEN) (MA) [CONTAINS:		Homo sapiens TSX (TSX) pseudogene, exon 5	DKFZp434P037_r1 434 (synonym: htes3) Homo saplens cDNA clone DKFZp434P037 5'	df45c01.y1 Morton Fetal Cochlea Homo saplens cDNA clone IMAGE:2486376 5		LINE-1 REVERSE TRANSCRIPTASE HOMOLOG	PM4-BT0650-010400-002-g09 BT0650 Homo sapiens cDNA	PM4-BT0650-010400-002-g09 BT0650 Homo sapiens cDNA	MYELIN-OLIGODENDROCYTE GLYCOPROTEIN PRECURSOR	QV1-UM0036-200300-115-g02 UM0036 Homo sapiens cDNA	QV1-UM0036-200300-115-g02 UM0036 Homo sapiens cDNA	Homo saplens gene for TMEM1 and PWP2,complete and partial cds	ot80c04.s1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:1623078 3' similar to contains element L1 repetitive element;	Mus musculus olfactory receptor cluster, OR3/A, OR3/B, OR3/C, OR3/E genes and OR37D pseudogene			wr86e04.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2494590 3'

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1130	4641	4491	5136		4338	346	94	3.1	3718	224.7	3	4045	3519	1077	2002		1720	723	1881	3800	2397	2397	972	351		350	3590	3590	3157	2051	2413	415
0 6266	1 9755	9611	1.		$\neg$	5 5527	Т	5627	8855			9172	8660	1001	Т	Т	_	5997	9793	80.50	7497	7497	61.18	993		5531	8729	8729	8306	7163	7512	5204
11418	5_		15300		14550	10654	T	10653	13947	1	12728			Т	Т	T	T	11031	14895	13153	12703	12702		10008	a constant	10659	13826	13825		12368	12719	10305
5.0	3.4	1,6			1.0	2.9		2.9	1.8	T	1.0	7.2	1.0	T	T	1	0.9	1,2	-1	<b>.</b> ნ	0.9	0.9	1.3	5.	7	1.0	1:1	=	1.3	-4	0.9	0.8
5.00E-18	6.00€-18	0.000	9000	7.00E-18	7.00E-18	7.00E-18	1	7.00E-18	8.00E-18	1	9.00E-18	1.00E-17	1.00E-17	1	1.00E-17	1.00E-17	1.00E-17	1.00E-17	2.00E-17	2.00€-17	2.00E-17	2.00E-17	2.00E-17	1.00	9 00E-17	2.00E-17	3.006-17					
8 AI280214.1	8 P52181			B R16220.1	8 AL 103204.2		1	8 AW316976.1			AA174078.1	R09942.1	AF224669.1	_1		P02461	AL163207.2	P08183	P80668	P12036	028983	CZ8983	AA722932.1		A1270080.1	AI270080.1	DESCOURT.	DE326522 1	DE336533 1	AW 119123.1	BE315238.1	T64110.1
EST_HUMAN	SWISSPROT		NT.	EST_HUMAN	2	EST_HUMAN		EST_HUMAN	4758977 NT	ì	EST_HUMAN	EST_HUMAN	NT I		NT.	SWISSPROT	Z,	SWISSPROT	SWISSPROT	SWISSPROT	3441331143	SWISSPROT	EST HUMAN		EST HUMAN	EST HUMAN		EST HUMAN	EST HUMAN	SWISSPROT	TOT HIMAN	EST HUMAN
IMAGE: 1893668 3' similar to contains Alu repetitive element;	TRANSGLUTAMINASE) (TGASE C) (TGC)  ITRANSGLUTAMINASE) (TGASE C) (TGC)  ITRANSGLUTAMINASE) (TGASE C) (TGC)  ITRANSGLUTAMINASE) (TGASE C) (TGC)	PROTEIN-GLUTAMINE GAMMA-GLUTAMYLTRANSFERASE (113305	Homo saplens chromosome 21 segment Hoza Coo	contains L1 repetitive element :	va49c07.s1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:53285 3 Similar to	Homo sapiens chromosome 21 segment HS21C084	ex10b04x1 NCL_CGAP_Path Fronto septem con-	9b:L20868 60S RIBOSOMAL PROTEIN L4 (HUMAN);	xx10b04.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2837071 3' similar to	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate in (Firms ), illinois	2p18g12.s1 Stratagene fetal retina 837.202 From September 2007.	y/30e07.71 Soares level live spream to be soares con Adone (MAGE:609862 3'	enzyme E2D 3 (UBE2D3) genes, complete was considered to the liver college 1NFI S. Homo saplens cDNA clone IMAGE:128388 5	Homo sapiens mannosicase, ceta 7, tycocina (in in i	Homo sapiens thrombospondin 2 (Tribos) gene, provides 188	CULLAGEN ALT DO 1(11) OF STATE OF LEGGS cane remoter region and exons 1A and 1B	HOMO SADIENIS CHICKLES PRECURSOR	MULTIURUG REGISTRICE 118 SEGMENT HS21C007	PHENYLACEI ALUENI DE DENTEIN 1 (P.GLYCOPROTEIN 1)	(NEUROFILAMENT HEAVY POLYPEPTIDE) (NF-H)	NEUROFILAMENT TRIPLET H PROTEIN (200 KDA NEUROFILAMENT PROTEIN)		70NADHESIN PRECURSOR	zg81d04.s1 Soares_fetal_hear_NbHH19W Homo sapiens cDNA clone IMAGE::399/51 3	contains Alu repetitive element:	contains Alu repetitive element;	qt63a08.x1 NCI_CGAP_Eso2 Homo saptens cDNA clone tMAGE: 1939922 3 Similar to	hw05b04.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE: 310 1999 3	hw05b04.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3101899 3	MAS-RELATED G PROTEIN-COUPLED RECEPTOR MRG	xdB9c09.x1 Soares NFL T GBC S1 Homo sapiens cDNA clone IMAGE:2004/04 3	yc05h08.r1 Stratagene lung (#93/210) nonito septema CDNA done IMAGE:3141678 5'

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	3//8	3778	542	4952	4694	4360	4360	3713	2198	4266	1032	534	533	4318	2049	1135	251	3867	914	831	4793	2152	2154	1846	119	119	5058
200	8915	89.5	5705	10057	9806	9482	9482	8851	7307	9391	6172	5697	5697	9441	1/38	627 <u>1</u>	5439	9003	6060	5980	9904	7264	7264	6964	5318	5318	10156
	14008	14007	10825	15127		14574	14573	_	12519	14474		10821	10821		12938		10566	14103	11218	11141	14997	12473	12472		10448	10447	15232
	1.7	1.7	1.5	<u>:</u>	1.2	1.4	1.4	1.0	0.6	2.7	0.5	1	1.5	1.0	1.4	16.0	1.0	1.2	0.8	0.8	=======================================	1.0	1.0	1.1	1.4	1.4	1.8
	3.00E-19		4.00E-19	6.00E-19	6.00E-19	6.00E-19 P34986	6.00E-19 P34986	6.00E-19	7.00E-19	8.00E-19	8.00E-19	9.00E-19	9.00E-19	1.00E-18	1.00E-18	2.00E-18	2.00E-18	3.00E-18	3.00E-18	3.00E-18	4.00E-18	4.00E-18	4.00E-18	4.00E-18	4.00E-18	4.00E-18	5.00E-18
CLUSS!	C28007	Q28997	AB007970.1	AL120817.1	AJ271735.1	P34986 ·	P34986	6.00E-19 AW852930.1	4758139 NT	AW902939.1	AW974902.1	AA281961.1	AA281961.1	T95406.1	AL163267.2			AL163247.2		AA814196.1	AF119668.1	Q06430	Q06430	AI738592.1	BE044076.1	BE044076.1	D61517.1
	SWISSPROT	SWISSPROT	NT	EST_HUMAN	NT	SWISSPROT	SWISSPROT	EST_HUMAN	9 NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	S	EST_HUMAN	EST_HUMAN	NT	EST_HUMAN	EST_HUMAN	NT	SWISSPROT	SWISSPROT	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN
GE A CAUNENGIC RECEPTOR	DETA 3 ADDENIEDCIA DECEDTAD	BETA-2 ADRENERGIC RECEPTOR	Homo sapiens mRNA, chromosome 1 specific transcript KIAA0501	DKFZp762F192_r1 762 (synonym: hmel2) Homo sapiens cDNA clone DKFZp762F192 5'	Homo sapiens Xq pseudoautosomal region; segment 1/2	OLFACTORY RECEPTOR 6 (M50)	OLFACTORY RECEPTOR 6 (M50).	PM0-CT0248-131099-001-g01 CT0248 Homo saplens cDNA	Homo sapiens DEAD/H (Asp-Giu-Ala-Asp/His) box polypeptide 6 (RNA helicase, 54kD) (DDX6) mRNA	QV3-NN1025-100500-183-b01 NN1025 Homo sapiens cDNA	EST387007 MAGE resequences, MAGN Homo sapiens cDNA	zt11d06.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:712811 5' similar to contains MER19.r2 MER19 repetitive element ;	zt11d06.r1 NCL_CGAP_GCB1 Homo sapiens cDNA done IMAGE:712811 5' similar to contains MER19.t2 MER19 repetitive element ;	ye43g05.r1 Soares fetal liver spleen 1NFLS Homo saplens cDNA clone IMAGE:120536 5' similar to contains L1 repetitive element;	Homo sapiens chromosome 21 segment HS21C067	801114352F1 NIH_MGC_16 Homo saplens cDNA clone-IMAGE:3355044 5'			CM0-BT0690-210300-298-g07 BT0690 Homo sapiens cDNA	ob23h11.s1 NCI_CGAP_Kid5 Homo sapiens cDNA done IMAGE:1324581 3' similar to SW:RS5_HUMAN P46782 40S RIBOSOMAL PROTEIN S5.;	Rattus norvegicus lipolysis-stimulated remnant receptor alpha' subunit mRNA, complete cds	N-ACETYLLACTOSAMINIDE BETA-1,6-N-ACETYLGLUCOSAMINYLTRANSFERASE (N-ACETYLGLUCOSAMINYLTRANSFERASE) (I-BRANCHING ENZYME) (IGNT)	N-ACETYLLACTOSAMINIDE BETA-1,6-N-ACETYLGLUCOSAMINYLTRANSFERASE (N-ACETYLGLUCOSAMINYLTRANSFERASE) (I-BRANCHING ENZYME) (IGNT)	wi33h08.x1 NCI_CGAP_Co16 Homo sapiens cDNA done IMAGE:2392095 3	ho36h04.x1 NCL_CGAP_Ut1 Homo sapiens cDNA clone IMAGE:3039511 3' similar to contains MER29.b3 MER29 repetitive element;	ho36h04.x1 NCI_CGAP_Ut1 Homo saplens cDNA clone IMAGE:3039511 3' similar to contains MER29.b3 MER29 repetitive element;	HUM411F05B Ciontech human fetal brain polyA+ mRNA (#6535) Homo sapiens cDNA clone GEN-411F05 5*

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1	4014 91	4161 9287	2023 71	2023 71	172 5365	172 5365	2883 8034	308 5492	4764 98	1967 78	5090 10188	4866 9973	4866 99	2786 5963	2173 72	1095 62	1095 62	813 59	4524 96	4115 92		П	4626 97	3355 84	2817 79	2685 77	2118 72
l	9145 1	87	7136 1	7136 1			34		9875 1	7870 1	88		9973 1	63	7282 1	6233 1	6233 1	5963	9643 1	9241 1		8649	9740 1	8498 1	7968	7772	7229 1
	14228		12336	12335	10491	10490]		10621	14970	12283	_	15058	15057		12495	11385	11384		14733	14327	12408	13759	14837	13607			12438
	0.9	5.0	0.8	0.8	1.0	1.0	1.1	1.0	1.0	1.9	11.4	4.3	4.3	0.9	0.6	0.7	0.7	1.5	0.9	1.7	1.0	3.9	1.3	1.3	5.0	1.0	0.5
	6.00E-21	7.00E-21	7.00E-21	7.00E-21	8.00E-21	8.00E-21	9.00E-21	9.00E-21	1.00E-20	1.00E-20	2.00E-20	2.00E-20	2.00E-20	2.00E-20	2.00E-20	2.00E-20	2.00E-20	2.00E-20	3.00E-20	3.00E-20	3.00E-20	6.00E-20	8.00E-20	1.00E-19	1.00E-19	1.00E-19	1.00E-19
	BE408611.1	AA046502.1	P15800	P15800	8.00E-21 AI795842.1	AI795842.1	AJ003514.1	BE165641.1	7661767	AA281961.1	5174538 NT	Q28983	Q28983	AW303868.1	H68656.1	AA516335.1	AA516335.1	AW303868.1	AA037616.1	P23273	U03888.1	P39188	H68656.1	AA834967.1	4758977 NT	D38044.1	H30795.1
1	EST_HUMAN	EST_HUMAN	SWISSPROT	SWISSPROT	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	EST_HUMAN	NT	SWISSPROT	SWISSPROT	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	SWISSPROT	NT	SWISSPROT	EST_HUMAN	EST_HUMAN	NT	NT	EST_HUMAN
Homo sanions protein throsing phosphaiase popuracentor type 21 (PTPN21) mRNA	801304125F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638310 5'	zk67a06.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:487858 5'	LAMININ BETA-2 CHAIN PRECURSOR (S-LAMININ) (LAMININ CHAIN B3)			RC0-HT0023-300699-001-E04 HT0023 Homo sapiens cDNA	AJ003514 Selected chromosome 21 cDNA library Homo sapiens cDNA clone MPIpi12-8J21	CM4-HT0481-310100-085-d07 HT0481 Homo sapiens cDNA	Homo sapiens HSPC064 protein (HSPC064), mRNA		Homo sapiens malate dehydrogenase 1, NAD (soluble) (MDH1) mRNA	ZONADHESIN PRECURSOR	ZONADHESIN PRECURSOR	xr24e10.x1 NCI_CGAP_Ut4 Homo sapiens cDNA clone IMAGE:2761098 3' similar to SW:RS5_MOUSE P97461 40S RIBOSOMAL PROTEIN S5.;	yr87h12.r1 Soares fetal liver spieen 1NFLS Homo sapiens cDNA clone IMAGE:212327 5'	ng69h09.s1 NCI_CGAP_Lip2 Homo sapiens cDNA clone IMAGE:940097 similar to TR:G1224066 G1224066 ORF2: FUNCTION UNKNOWN.;	ng69h09.s1 NCI_CGAP_Lip2 Homo sapiens cDNA clone IMAGE:940097 similar to TR:G1224066 G1224066 ORF2: FUNCTION UNKNOWN.;	xr24e10.x1 NCI_CGAP_Ut4 Homo sapiens cDNA clone IMAGE:2761098 3' similar to SW:RS5_MOUSE P97461 40S RIBOSOMAL PROTEIN S5.;	zk36b12.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:484895 3' similar to contains L1.t3 L1 repetitive element ;	OLFACTORY RECEPTOR-LIKE PROTEIN 114	Human BXP21 gene	ALU SUBFAMILY J SEQUENCE CONTAMINATION WARNING ENTRY	yr87h12.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:212327 5'	aj49b12.s1 Soares_testis_NHT Homo sapiens cDNA done IMAGE:1393631 3' similar to contains MER37.t2 MER37 repetitive element;	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA	Human gene for Ah-receptor, exon 7-9	yo79g07.r1 Soares aduit brain N2b4HB55Y Homo sapiens cDNA clone IMAGE:184188 5' similar to contains MER10 repetitive element ;

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9336	2 9336	0 8759	3 7619		3 6090		4 8723				6080	9435	6508	Т		7690	Γ	Т		П		6299		6065	6065	5336	8192	7335	6824		10205	9808	7341
6 14420	6 14419		12820		<u></u>			15145	14393	10933		14525		Τ	11506	12894	T	T	12814	12575	П	11454		11221	11220		13294	12547	12005			14907	12553
0.8	0.8	1.5			1.2		0.9		2.3	1,4	1.6	2.6	6.0	200	<b>o</b>	1.0	٤		0.8	2.6	0.7	2.6		0.9	0.9	5.0	4.0	==	1.2		5	6.0	=
3.00E-22	3.00E-22	3.00E-22	3.00E-22		3.00E-22	<del></del>	4.00E-22	7.00E-22	7.00E-22	7.00E-22	8.00E-22	9.00€-22	1.000-2	1000	1.00E-21	Z.00E-Z1	3000	2005-2	2.00E-21	2.00E-21	2.00€-21	2.00E-21		2.00E-21	2.00E-21	2.00E-21	3.00E-21	3.00E-21	4.00E-21		5.00E-21	5.00E-21	5.00E-21
22 F00548.1	72 F00548.1	2 10147 10.1			2 Al469679.1		2 AJZ/1/35.1	2 AB008681.1	2 Q61838		_		1	_	AA557657.1	C05020			T10311.1	D14547.1		AA206749.1		AB00/85/.2							D87675.1	4885474 NT	AA92819
EST_HUMAN	EST_HUMAN		NT TOWN	ROT LIMAN	EST_HUMAN		-	21	SVVISOFINO	N.	EST TOWARD			EST HUMAN	EST_HUMAN		SWISSPROT	SWISSPROT	EST_HUMAN	N.	ESI HUMAN	EST_HUMAN		12	N	בטו חטואסאוא		21	ESI HUMAN		N	TNI	EST_HUMAN
sapiens cDNA done 10E08	sapiens cDNA clone 10E08  HSB10E082 STRATAGENE Human skeletal muscle cDNA library, cat. #936215. Homo	HSB10E082 STRATAGENE Human skeletal muscle cDNA library, cat. #936215. Homo	Human chromosomal protein HMG1 related gene	SW:RL21 HUMAN P46778 60S RIBOSOMAL PROTEIN L21.	repetitive element;	gb:L19593 HIGH AFFINITY INTERLEUKIN-8 RECEPTOR B (HUMAN); contains L1.11 L1	m14h10 v1 NCI CGAP Co14 Homo sapiens cDNA clone IMAGE:2156611 3' similar to	Homo saplens Xg pseudoautosomal region; segment 1/2	Lomo seriens gene for activity receptor type IIB, complete cds	AI BHA 2 MACROGLOBULIN PRECURSOR (ALPHA2M)	United the Chromosome 21 segment HS21C046	TR:Q15408 Q15408 NEUTRAL PROTEASE LARGE SUBUNIT.	E94a03.x1 NCI_CGAP_Kid11 Homo sapiens cDNA done IMAGE:2296204 3' SIMILIER TO	ar88d12.x1 Barstead colon HPLR87 Homo sapiens CUNA Clone INVAGE.413470	MER29.b2 MER29 repetitive element :	ni46c04.s1 NCI CGAP Pr4 Homo saplens cDNA clone IMAGE:1043718 similar to contains	ZONADHESIN PRECURSOR	ZONADHESIN PRECURSOR	seq1487 b4HB3MA Cot8-HAP-Ft Homo sapiens cDNA cone bandswared to the cone	Figure 1 Civil Civil Civil Company of the Company o	Human DNA SINE rapetitive element	IN ERGENIC REGION: [1].	Similar to SUCYGA1 P48234 HYPOTHETICAL 81.7 KD PROTEIN IN MOL1-NAT2	-75511 rd Stratagene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:647805 5	Homo septens mRNA for KIAA0397 protein, partial cds	Lucro capiens mBNA for KIAA0397 protein, partial cds	DN/3-HT0458-170200-090-012 HT0458 Homo sapiens cDNA	Homo sapiens LGMD2B gene	Homo sablens chramosome 21 segment HS21C001	co86e08.s1 NCI_CGAP_Nib5 Homo septems CFR.t1 OFR repetitive element :	Homo sapiens DNA tot arryloid pressures: Pressure anne IMAGE:1573094 3' similar to		to TR:002711 O22711 PRO-POL-DUTPASE POLYPROTEIN :

zq76f11,r1 Stratagene hNT neuron (#937233) Homo saplens cDNA clone IMAGE:047303 3						
۱	1	1.00	9.0	14121	CCRO	1836
EST HUMAN PMA-SN0020-010400-002-002 SN0020 FIGHIO September 2015	1 00E-22 AWA65517 1 E	1 00E-22	200	1	1	
NC1-01000-220000-0210010000 Hami	1.00E-22 AW886543.1	1.00E-22	0.8	10394	5271	63
DC4 OTTORS SECOND AST OTTORS Home	l	1.00E-22	0.8	10393	5271	63
1		2.005-22	1.3	14340	9259	4133
١	١	2.00E-22 NJ0720.1	0.9	1	Г	3587
EST HUMAN (G4789 Fetal heart Homo sapiens CUNA Gone G4709 3 end		3	3	Τ	Т	
mRNA	8394043 NT	2.00E-22	<u>*</u>	13623	8516	3373
Homo sapiens protein kinase, war -acevaeou, gariilia o con						
SWISSPROIL IMMEDIA E CARE GENE AND AND A CONTROL SUBJUIC (PRKAGS).		2.00E-22 P24916	1.3	12776	7574	2476
WASSIATE EADLY CENE 13 PROTEIN PRE		2.000-22	:		7027	1910
EST HUMAN (vx73d05.s1 Soares melanocyte 2NDHM Homo sapiens CDNS CORE INSCRIPTION OF THE PROPERTY OF THE PROPER		2 00E 22 N24042	3		Т	
EST HUMAN   similar to contains MER12.12 MER12 repetitive eleting it.		3.00E-22 AI090125.1	2.7	14906	9807	4695
qb28c07 x1 Scares pregnant using reprint or norm supports	٠					
NEWBIT Home pariens cone IMAGE: 1697580 3"						

Macada uscala minan in read-openio i receni vi comi	Ž	6.00E-24 AB001421.1	6.00E-24	0.8		5845	ĝ
CANCID LOCATE TO DAY for Touris Control of TSPY), complete cds	EST HOMAN	7.00E-24 AW937854.1	7.00E-24	1.3		8933	3796
OLI CO TONAT, 170000, 1902 and DT0047 Homo sapiens cDNA	OWIGOTAG	P23209	8.00E-24	1.1	14758	9668	4549
OL FACTORY RECEPTOR-LIKE PROTEIN IS	CWICCOST	723208		12	Г	9868	4549
OLFACTORY RECEPTOR-LIKE PROTEIN I3	SWISSPROT	03350		0.0	Г	Т	540
similar to TR:E19822 E19822 CA PROTEIN.	EST HUMAN	AA663213.1	0.00€-24	) b			
ch75cos of Strategene fetal retina 937202 Homo sapiens cDNA clone IMAGE:852758 3'	2	AL163210.2	1.00E-23	4.5		9769	4657
Torilo sapieta Airolliosonia 21 segment HS21C010	2	AL163252.2	_	1.6	14642		4428
yr16a02r1 Soares fetat liver spleen 1NFLS Homo sapiens curvo durie invocations of some 21 soment HS21C052.	EST_HUMAN	H59931.1	<u>.                                      </u>	3.0	14122	9029	3894
yr18a02.r1 Soares fetal liver spieen 1NFLS Homo sapiens guive durin investigates si	EST_HUMAN	H59931.1	2.00E-23	3.0	14121	9029	3894
WING-TI CHO! TO GOOD TO GOOD THAN OF THE PROPERTY OF THE PROPE	EST HOMAIN	BE165980.1	2.00E-23	3.0		8794	3655
SEQUENCE:		AI201458.1	2.00E-23	1.5		8469	3325
213537 MER37 TRANSPOSAB							
	OWIGORACI	P22105	2.00E-23 PZZ105	=	13052	7849	2765
TENASCIN-X PRECURSOR (TN-X) (HEXABRACHION-LIKE)	SWISSPROT	P22105	2.00E-23 P22105	==		7849	2765
TENASCIN Y DESCRIBSOR TINAY (HEXARRACHION-LIKE)	2	M552/0.1	2.00E-23 M552/0.1	0.9		7866	1126
Human mattiv Cla notain (MGP) pana, complete cds	12	2.00E-23 AJZ89880.1	2.00E-23	1.5	10934	5808	650
Homo capiene KIÀA0851 nene (nartial), XT3 gene and LZTFL1 gene	2	AL163249.2	6.00E-23	3.1	14378	9297	4171
Ranus norvegious Nim to (valido) illinos (surpros	2	AF199333.1		1.6		8530	3387
similar to contains Alu repetitive element;	EST_HUMAN	AA189080.1		1.8	11971	6795	2800
Tra45h06 s1 Stratagene hNT neuron (#937233) Homo sapiens cDNA done IMAGE:632627 3'	2	AF198348.1	8.00E-23	0.8	13768	8664	3523
Calling Carry, Since Operator Common (Dach2) mRNA, complete cds	2	D14547.1		1.7	13616	8508	3365
Turnan latiniar Automiter a cases (Compt and Table )	N	U50871.1	1.00E-22	1.0	12835	7635	2539
zq76f11.r1 Stratagene hNT neuron (#937233) Homo sapiens CUNA Cione IMAGE. Similar to SW:VPRT_HUMAN P10265 RETROVIRUS-RELATED PROTEASE;	EST HUMAN	AA199812.1		0.5		7943	2400
TWA-SNOOZO-0 GACGAGGA CACCACA TANIA ATTAINS ON A DOCUMENT BATARA A	EST HUMAN	1.00E-22 AW865517.1	1.00E-22 /	0.6	12141	6955	1836
RC 1-01000-220000-021-03 C10000 Home sanians cDNA	EST HOMAN	AW886543.1	1.00E-22 /	0.8	10394	5271	63
RC1-U10083-22000-021-07 OT0083 Home saplens cDNA	EST HOMAN	AW886543.1		0.8	10393	5271	63
PM 1-3 10202-20 1199-00 1-3 12 0 ( DEC : 1011) Spring applience applied a DNA	ES! HOMAN	AW817794.1		1.3	14340	9259	4133
G4769 Fetal ribalit Figure Spring Script Street CDNA	EST_HUMAN	R58726.1		0.9	13822	8726	3587
mRNA		8394043 NT	2.00E-22	4.1	13623	8516	3373
Homo sapiens protein kinase, AMP-activated, gamma 3 non-catalytic subunit (PRKAG3),		10.0		i.e	12/10	/5/4	24/6
IMMEDIATE EARLY GENE 13 PROTEIN PRECURSOR	SWISSPROT	D24016	_	3 2	300	/22/	0181
vx73d05.s1 Soares metanocyte 2NbHM Homo sapiens cDNA clone IMAGE:267369 3	EST HUMAN	NOADAO 1		2 5	14800	, se	4090
gb28c07.x1 Soares_pregnant_uerus_norr O romo sepons Contains MER12.r2 MER12 repetitive element ;	EST HUMAN	A1090125 1	7 cc-⊒00 E	27	1000	3	
NAGE: 1697580 3'							

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4067	3898	1559	2433	4753	2384	361	4096	4096	2801	2363	1325	4798	3278	3278	4221	3979	3979	3356	1430	5166	4710	4926	4173	2987	2638	1670	3729	3216	2298	3889	4068	4068	820
$\neg$	9033	6686	7532		7486	5539	9222	9222		7	6454			8423	9345	9111	9111	8499	6557		9822	10033	9299		7727				7402	9025	7	7	5970
14277	14126	11853	12738	14957	12688	10670	14306	14305	12795	12670	11620	15002	13532	13531		14194	14193		11733	15331		15107		13242		11970		13475	12610	14117	14279	14278	11127
2.0	1.4	0.5	0.7	2.7	2.8	0.6	1.9	1.9	1.6	1.3	1.2	6.0	2.7	2.7	3.0	8.0	8.0	2.8	8.0	1.0	5.5	2.3	1.6	6.0	0.7	8.0	1.0	1.0	8.0	7.2	2.1	2.1	3.5
7.00E-26	7.00E-26	7.00E-26	9.00E-26	1.00E-25	1.00E-25	1.00E-25	2.00E-25	2.00E-25	2.00E-25	2.00E-25	2.00E-25	3.00E-25	3.00E-25	3.00E-25	4.00E-25	4.00E-25	4.00E-25	4.00E-25	4.00E-25	5.00E-25	6.00E-25	7.00E-25	1.00E-24	1.00E-24	1.00E-24	1.00E-24	2.00E-24	2.00E-24	2.00∈-24	5.00E-24	6.00E-24	6.00E-24	6.00E-24
AW340153.1	X89211.1	AF003528.1	AL163218.2	BE162737.1	Q06055	AL040229.1	P17008	P17008	P17008	AW954060.1	5032158 NT	P29622	8923321 NT	8923321 NT	BE170957.1		7106446	AW887671.1	T98107.1	AW838171.1	Q39575	AA483944.1	AF143313.1	D86423.1	AW820194.1	7706340	AW898189.1	AA293827.1	AA167539.1	AJ229043.1	AF199333.1	AF199333.1	AL163249.2
EST_HUMAN	N <sub>1</sub>	NT	NT	EST_HUMAN	SWISSPROT	EST_HUMAN	SWISSPROT	SWISSPROT	SWISSPROT	EST_HUMAN	ľ	SWISSPROT	NT	NT	EST_HUMAN	3	BNT	EST_HUMAN	EST_HUMAN	EST_HUMAN	SWISSPROT	EST_HUMAN	N	N.T	EST_HUMAN	목	EST_HUMAN	EST_HUMAN	EST_HUMAN	N <sub>T</sub>	NT	NT	N
hd02e12.x1 Soares_NFL_T_GBC_S1 Homo saplens cDNA clone IMAGE:2908366 3	ous retroviral	Homo sapiens איזויאס annigrouc ectodermal dyspiasia protein gene (בטא), פאטור ב פווס flanking repeat regions	Homo sapiens chromosome 21 segment HSZ1CU18	PM1-HT0454-080100-002-h09 HT0454 Homo sapiens cDNA	ATP SYNTHASE LIPID-BINDING PROTEIN P2 PRECURSOR (ATPASE PROTEIN 9)	DKFZp434H0313_r1 434 (synonym: htes3) Homo saplens cDNA clone DKFZp434H0313 5'	40S RIBOSOMAL PROTEIN S16	40S RIBOSOMAL PROTEIN S16	40S RIBOSOMAL PROTEIN S16	EST366130 MAGE resequences, MAGC Homo sapiens cDNA	100	KALLISTATIN PRECURSOR (KALLIKREIN INHIBITOR) (PROTEASE INHIBITOR 4)	Homo sapiens hypothetical protein FLJ20344 (FLJ20344), mRNA	Homo sapiens hypothetical protein FLJ20344 (FLJ20344), mRNA	QV3-HT0543-140400-149-e11 HT0543 Homo sapiens cDNA	Mus musculus wingless-related MMTV integration site 3A (Wnt3a), mRNA	Mus musculus wingless-related MMTV integration site 3A (Wnt3a), mRNA	PM3-OT0093-280200-001-g07 OT0093 Homo sapiens cDNA	ye56h04.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:121783 5'	QV2-LT0051-260300-111-f03 LT0051 Homo sapiens cDNA	DYNEIN GAMMA CHAIN, FLAGELLAR OUTER ARM	MER1.b2 MER1 repetitive element :	Homo sapiens Pien (Pien) gene, exon 2	Mus musculus mRNA for HGT keratin, partial cds	QV0-ST0294-100400-185-c10 ST0294 Homo sapiens cDNA	Homo sapiens CGI-127 protein (LOC51646), mRNA	RC3-NN0058-090500-021-b03 NN0068 Homo sapiens cDNA	zt65b06.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:727187 5	zp11f09.r1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:609161 5		Rattus norvegicus RIM18 (Rim18) mRNA, complete cds	-	Homo saplens chromosome 21 segment HS21C049

TB:GSGS374 GSGS374 THYROID RECEPT							
EST_HUMAN PRECURSOR (TOWNS), (#037204) Homo sapiens cDNA clone IMAGE:588427 5' similar	3.00E-26 AA115895.1	3.00€-2	0.9		7102	1987	
zn30d08.r1 Stratagene neuroepithellum N1 zrvami 83/234 Huitio septem 2007				١	ł	1	
EST HUMAN URF 204-341000 11 434 (3)1011/1111 1000 1000 1000 1000 1000 1000	3.00E-26 AL045855.2	3.00€-2	0.5	12272	7075	1058	
COLOGIA CHICITO, 12 1000000000 htes3) Hor	4.00E-26 AA329548.1	4.00E-2	1.5		6652	1525	
	5.00E-26  U3/012.1	5.00E-2	1.8	12976	7779	2692	_
Human cleavage and polyadenylation specificity factor mRNA, complete cus				140	0293	1100	_
EST HUMAN WP:F49C12.11 CE03371 ;	5 00E-26 AI708235.1	5 005-5	<u>.</u>				
as38h08.x1 Barstead aona metros monto saprena como como como como como como como com				1	1		_
EST TOWARD WAGE:2319519 3' similar to	5.00E-26  AI/08235.1	5.00E-2	<u>-</u>	11450	6295	1160	_
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EST HUMAN IMAGE:645271 5'	6.00E-26 AA206131.1	6.00E-2	1.4	13557	8447	3300	
zq52h04.r1 Stratagene neuroepartement (restriction)							_
HO277331) Homo sapiens cDNA clone	6.00E-26 AFU29300.	6.00E-2	0.9	12499	2178 7287	2178	_
cene families	)	2	•				_
Homo sapiens chromosome 9 duplication of the 1 cell receptual uses forms and a specific							_
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	EST_HUMAN	A1348634.1	2.00E-28 AI348634.	0.8	12732	ľ	2427
Homo sapiens ITGB4 gene for integrin beta 4 subunit, exons 3-41	NT	Y11107.3	2.00E-28	3.4	11437	6284	1149
MAN RC1-BT0254-220300-019-c05 BT0254 Homo sapiens cDNA	EST_HUMAN	BE062167.1	2.00€-28	2.2	10416	5289	83
	S <sub>1</sub>	AF155382.1	3.00E-28	0.6		6391	1262
	EST HUMAN	BE409100.1	4.00E-28	3.4	13320	8221	3070
xn33c09.x1 NCI_CGAP_Kid11 Homo sap SW:GG95_HUMAN Q08379 GOLGIN-95	EST HUMAN	AW195066.1	4.00E-28	0.5	12879	7677	2584
yi89f10.r1 Soares placenta Nb2HP Homo	EST_HUMAN	R79762.1	5.00E-28	1.9	14148	9061	3927
wo18c07.x1 NCI_CGAP_Pan1 Homo sap contains THR.b1 THR repetitive element	EST_HUMAN	AI921003.1	5.00E-28	1.1		5499	315
Homo sapiens mRNA for KIAA0866 protein, complete cds	NT	AB020673.1	6.00E-28	1.3	14203	9119	3987
Homo sapiens mRNA for KIAA0866 protein, complete cds	NT	AB020673.1	6.00E-28	1.3	14202	9119	3987
to12b09.x1 NCI_CGAP_Ut2 Homo saplens cDNA clone IMAGE:2178809 3' similar to contains OFR.t1 OFR repetitive element;	EST_HUMAN	AI590115.1	9.00E-28	1.2	15293	10214	5118
to12b09.x1 NCI_CGAP_Ut2 Homo sapiens cDNA clone IMAGE:2178809 3' similar to contains OFR.t1 OFR repetitive element;	EST_HUMAN	AI590115.1	9.00E-28	1.2	15292	10214	5118
	EST_HUMAN	W23234.1	9.00E-28	1.1	11428	6276	1140
INVITCTIXI NCI_CGAP_LUZ4 FIORIO SEDIENS CUNA GIOTE INVASCE.3 IOS IOS SIGNIAI OTTR: Q07314 Q07314 SECRETED NEUREXIN III-ALPHA-C PRECURSOR. [3] TR: Q07280  MAN TR: Q07313;	EST_HUMAN	BE348399.1	9.00E-28	0.8		5331	136
gene families	3	AF029308.1	1.00E-27	2.8	11742	6565	1438
Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)	N <sub>T</sub>	AB026898.1	1.00E-27	1.4	11281	6125	980
Homo sapiens chromosome 21 segment HS21C046	N	AL163246.2	1.00E-27	0.5		5596	429
Rattus norvegicus voltage-gated sodium channel mRNA, complete cds	NT	AF000368.1	2.00E-27	1.1	14159	9077	3944
Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene	깈	AF111167.2	2.00E-27	1.4	13449	8336	3187
Homo saplens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene	N <sub>T</sub>	AF111167.2	2.00E-27	1,4	13448	8336	3187
hi51h12.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2975879 3' similar to TR:O76040 O76040 ORF2: FUNCTION UNKNOWN:	EST_HUMAN	AW629172.1	2.00E-27	10.3		8222	3071
	EST_HUMAN	AA565345.1	2.00E-27	6.7		6971	1853
Homo sapiens alpha NAC mRNA, complete cds	NT	AF054187.1		8.0	10352	5245	36
MAN PM0-BT0527-090100-001-d11 BT0527 Homo sapiens cDNA	EST HUMAN	BE071924.1	3.00E-27	1.3	14381	9300	4174

EST_HUMAN TO conditis mercia mercia mercia	EST_H	1.00E-30 AW468897.1	1.00E-30	0.6	1 10813	7 5691	527
				٦	T	Т	
EST TOWARD COOR STREET TO GRO ST Home saplens cDNA clone IMAGE:2910991 3' Similar	101	C18939.1	1.00E-30	3.5	$\neg$	Т	2
	100 TO		2.00E-30	1.7	14879	7	4668
	EST HIMAN	BE298945.1	2.00E-30	1.7	14878	_1	4668
GO11108GOF1 NIH MGC 17 Homo sapie	EST_HUMAN	AW206581.1	2.00E-30	2.1	13951	8858	3721
in a Bit of 2-12 D. I I st NCI CGAP Sub3 Homo sapiens cDNA clone IMAGE:2722558 3	-	71 1 1 100.	2.000-00	5.4	13141	8040	2889
Homo sapiens Y-linked zinc finger protein		AE114156 1		2.2	Π		1464
$\bot$	EST H	BE 175877 1		0.8	Г	6206	1068
	EST H	2.00E-30 EDBERR 1	2.005-30	1.2	10943		659
	EST HUMAN	3.00E-30 AM/857345 1	3.000	9.0	Γ		3697
	EST_HUMAN	3.00E-30 AI338551.1	3.00E-30	0.6		6270	1134
		74400141	4.UUE-30	0.6	12413	7207	2096
	EST HUMAN	4.00E-30 AW837471 1	4.000-30	0.6	12412		2096
	EST HUMAN	Al399992.1	5.00E-30	31.2	14152	9065	3931
		日日1000020.1	6.00E-30	2.4	13410	8302	3153
HUMAN QVQ-BN0147-290400-214-f12 BN0147 Homo sapiens cDNA	4	DESSONS 1		1.3	12037		1736
Human mRNA for integrin alpha subunit, complete cds	3 3	X31733.1	6.00E-30	: :		6676	1549
Human lambda-immunoglobulin constant r	1 5	BEURITOS		1,2		6625	1499
HIMAN PM4-BT0724-150400-004-d11 BT0724 Homo sapiens cDNA		AL 163268.2	2.00E-29	2.0	14387		4182
Homo spriess chromosome 21 segment HS21C068	1	T.802296AV		0.5	11901	6729	168
1		L.802296AV	_	0.5	11900	6729	1682
		A1963604.1	_	2.2	11811	6643	1516
W165d10.x1 NCI_CGAP_Ut1 Homo sapiens cDNA clone IMAGE:2492563 3' similar to	EST_HU	AI963604.1	2.00E-29 /	2.2	11810	6643	1516
Wr65d10.x1 NCL CGAP_Ut1 Homo sapiens culva dulle INFO E.E. FORDEROTEIN :				1	10//0	9	2
Homo sapiens envelope protein RIC-5 (env) gene, Campies Com	Z	F084869.1	2 00E-29 AF084869.1		10//2	948	\$
Homo saplens envelope protein RIC-6 (env) gene, complete cols	NI	F084869.1			4254	440	4317
	3	AB042297.1			1000	2 2	3194
HUMAN NHTBC cn15c02 random	EST_HU	AI752367.1	4 00E-29	17	_	3	
Troing sapiels Cheman Trabequiar Bone Cells Homo sapiens cDNA done	Z	L163203.2	5.00E-29 AL163203.2	1.0	_	835	4928
MAN element;	EST_HUMAN	1936748.1	6.00E-29 AI936748.1	22	10857	5740	580
TR:015475 O15475 UNNAMED HERV-H PROTEIN ;contains LTR7.51 LTR7 repetitive		•					
	EST_HUMAN	W966447.1	7.00E-29 AW966447.1		11881	2710	1584
	Z,	F000995.1	1.00E-28 AF000995.1	 	12939	7730	3850
Homo saplens ublguitous TPR motif, Y Isoform (UTY) mRNA, alternative transcript 2,							

•																															
1040	1640	1640	16	2391	2292	2167	1875	4303	3055	2550	2759	1775	1594	581	5026	5026	185	185	3827	3625	3198	3198	2633	2633	694	2362	1060	3015	2973	2165	680
6/68	6766	6766	5224	7491	7396	7276	6993	9427	8206	7645	7843	Г	I	5741	10127	10127	П	5379	8964	8764	8347	8347	7722	7722	5849	7484	6199			7274	Т
1183/	11936	11935	10326	12696	12606	12487	12179	14517		12846			11889		15201	15200			14063		13461	13460	12925	12924	)	_	11352		П	12485	Γ
0.7	0.7	0.7	2.8	1.6	0.8	1.3	0.7	1.4	==	0.5	1.4	0.9	1.0	1.3	1.7	1.7	1.0	1.0	i	2.8	4.5	4.5	0.6	0.6	0.6	1.9	0.6	0.9		1.2	Γ
1.00E-31	1.00E-31	1.00E-31	1.00E-31	2.00E-31	2.00E-31	2.00E-3	2.00€-3	3.00E-31	3.00E-31	3.00E-31	4.00E-31	4.00E-31	4.00E-31	4.00E-31	5.00E-31	5.00E-31	5.00E-31	5.00E-31	6.00E-31	6.00E-31	6.00E-31	6.00E-31	7.00E-31	7.00⊑-31	7.00E-31	8.00E-31	8.00E-31	1.00E-30	1.00E-30	1.00E-	1.008-
095371	_	_	1.00E-31 U93163.1	AA458824.1	AL119245.1	2.00E-31  AI393388.1	2.00E-31 AW838171.1	Al936829.1	1 4505752 NT	6005871 NT	1 5730038 NT	1 AL163280.2	1 Q10473	1 AJ271735.1	1 8924243 NT			_	1 AW067805.1	AF223391.1	11 AW881551.1	1 AW881551.1		1 BE326517.1		AL 16320		AA31504	30 58030	1.00E-30 AA664377.1	1.00E-30 AL163203.2
SWISSPROT	SWISSPROT	SWISSPROT	NT	EST_HUMAN .	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	2 NT .	1 NT	NT NT	NT	SWISSPROT	TN	13 NT	13 NT	NT	NT ,	EST HUMAN	NT T	EST_HUMAN	EST_HUMAN	EST_HUMAN	l f	EST_HUMAN	NI	<u> </u>	EST HUMAN	5803091 NT	EST HUMAN	Z
OLFACTORY RECEPTOR 2C1	OLFACTORY RECEPTOR 2C1	OLFACTORY RECEPTOR 2C1	Homo sapiens MAGE-B2 (MAGE-B2), MAGE-B3 (MAGE-B3), MAGE-B4 (MAGE-B4), and MAGE-B1 (MAGE-B1) genes, complete cds	aa88f11.s1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:838413 3' similar to contains THR.t2 THR repetitive element;	DKFZp761G1513_r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761G1513 5	lg44g05.x1 Soares_NFL_T_GBC_S1 Homo saplens cDNA done IMAGE:2111672 31	QV2-LT0051-260300-111-f03 LT0051 Homo saplens cDNA	wp70a02.x1 NCI_CGAP_Bm25 Homo saplens cDNA clone IMAGE:2467082 3' similar to TR:060784 O60794 DJ393P12.2 ;	Homo sapiens phosphoglycerate mutase 1 (brain) (PGAM1) mRNA	Homo sapiens SEC63, endoplasmic reticulum translocon component (S. cerevisiae) like (SEC63L), mRNA	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA	Homo sapiens chromosome 21 segment HS21C080	POLYPEPTIDE N-ACETYLGALACTOSAMINYLTRANSFERASE (PROTEIN-UDP ACETYLGALACTOSAMINYLTRANSFERASE) (UDP-GALNAC:POLYPEPTIDE, N-ACETYLGALACTOSAMINYLTRANSFERASE) (GALNAC-T1)	Homo saplens Xq pseudoautosomal region; segment 1/2	Homo sapiens hypothetical protein SIRP-b2 (SIRP-b2), mRNA	Homo sapiens hypothetical protein SIRP-b2 (SIRP-b2) mRNA	Homo sapiens type i DNA topolsomerase gene, exon 8	Homo supiene has I DNA topolograms and a second	cn19d07.x1 Normal Hurnan Trabecular Bone Cells Homo sapiens cDNA clone	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spiloed	RC4-OT0037-150200-011-g08 OT0037 Homo sapiens cDNA	RC4-OT0037-150200-011-908 OT0037 Homo saplens cDNA	Lu24 Homo sapiens	hw05a11.x1 NCI CGAP Lu24 Homo sapiens cDNA clone IMAGE:3182012 3	EST84555 Colon adenocarcinoma IV Homo sapiens cDNA 5' end		Homo sapiens hypothetical protein FL/20420 (FL/20420), mRNA		Homo sapiens methonine aminopentidase: elE-2-associated n67 (MNDED) mRNA	lac77b08.s1 Stratagene lung (#937210) Homo sanians cONA close IMAGE:8888600 31	Homo sapiens chromosome 21 segment HS21C003

4535 6854 14744 1.0 1.00E-31 AL194376.1 EST_HUMAN OFF25478235_1 FAY (gronoym: Infort) Home supleme CONA clone DK725478235.5 6854 14742 1.0 1.00E-31 AL194376.1 EST_HUMAN OFF25478235_1 FAY (gronoym: Infort) Home supleme CONA clone DK725478235.5 147526 17868 123.1 1.0 0.00E-32 (J05971.1 KIT HUMAN		EST HUMAN	AI160189.1	2.00E-33	0.8		5225	99
9854 14741 1.0 1.00E-31 AL134376.1 EST_HUMAN   9865 14742 1.0 1.00E-31 AL134376.1 EST_HUMAN   7786 12347 1.2 8.00E-32 US0871.1 NT   7786 12347 1.2 8.00E-32 US0871.1 NT   9865 14958 1.2 7.00E-32 DF2591 SWISSPROT   7788 12988 0.9 6.00E-32 AL163267.2 NT   9883 14986 0.9 5.00E-32 AL163267.2 NT   9883 14986 0.9 2.00E-33 BE296613.1 EST_HUMAN   5263 10382 0.7 7.00E-33 BE296613.1 EST_HUMAN   5263 10382 0.7 7.00E-33 BE327112.1 EST_HUMAN   5263 10383 0.7 7.00E-33 S031736 NT   5263 10383 0.7 7.00E-33 AL163285.2 NT   6974 12158 1.4 5.00E-33 AL163285.2 NT   6974 12158 1.4 5.00E-33 AL163285.2 NT   6974 12158 1.4 5.00E-33 AL163285.2 NT   6974 12393 0.6 4.00E-33 AL163285.2 NT   9504 14589 1.6 4.00E-33 AL163210.2 NT   9504 14589 1.6 4.00E-33 BE350127.1 EST_HUMAN   6211 1.2 3.00E-33						1,100	Т	100
9854 14741 1.0 1.00E-31 AL134376.1 EST_HUMAN 7866 14742 1.0 1.00E-31 AL134376.1 EST_HUMAN 7866 14742 1.0 9.00E-32 U50871.1 NT		NT	AB035346.1	3.00E-33	3.1	14967	7	4761
9854 14741 1.0 1.00E-31 AL134376.1 EST_HUMAN 9654 14742 1.0 1.00E-32 U50871.1 NT 7886 12947 1.2 8.00E-32 U50871.1 NT 7788 12988 0.9 6.00E-32 AI056770.1 EST_HUMAN 6156 11311 10.0 5.00E-32 AI478104.1 EST_HUMAN 7788 12988 0.9 6.00E-32 AI478104.1 EST_HUMAN 7788 12988 0.9 0.0E-33 AI478246.2 NT 7788 14986 0.9 2.00E-33 AI478246.2 NT 7788 14988 0.9 0.0E-33 BE327112.1 EST_HUMAN 7788 1298 1298 1298 13.3 AI48285.2 NT 7789 12158 1.4 5.00E-33 AI48285.2 NT 7799 12393 0.6 4.00E-33 AI4828521.1 EST_HUMAN 7799 12393 0.6 4.00E-33 AI4828521.1 EST_HUMAN 7799 12393 0.00E-33 AI8828501.2 EST_HUMAN 7799 12393 0.00E-33 AI8828501.2 NT 7799 12393 0.00E-33 AI8828501.2 NT 7799 12393 0.00E-33 AI8828501.2	contains MER29.b3 MER29 repetitive element;	EST_HUMAN	BE350127.1	3.00E-33	1.2			1074
9854 14741 1.0 1.00E-31 AL134376.1 EST_HUMAN 9654 14742 1.0 1.00E-32 U50871.1 NT 7986 1.2 1.0 9.00E-32 U50871.1 NT 7145 12347 1.2 8.00E-32 U50871.1 NT 7788 12988 0.9 6.00E-32 AL478104.1 EST_HUMAN 6158 11311 10.0 5.00E-32 AL478104.1 EST_HUMAN 6158 11311 10.0 5.00E-32 AL163246.2 NT 60661 0.6 4.00E-32 AL163246.2 NT 75263 10382 0.7 7.00E-32 BE296613.1 EST_HUMAN 8352 0.7 7.00E-33 BE327112.1 EST_HUMAN 8352 0.7 7.00E-33 BE327112.1 EST_HUMAN 8352 0.7 7.00E-33 AL990115.1 EST_HUMAN 8352 0.7 7.00E-33 AL990115.1 EST_HUMAN 8352 0.9 6.00E-33 AL163285.2 NT 6974 12158 1.4 5.00E-33 AL163285.2 NT 6974 12158 1.4 5.00E-33 AL163285.2 NT 7333 1.3 4.00E-33 AL163285.2 NT 7333 1.3 4.00E-33 AL163285.2 NT 7472 2.7 4.00E-33 AL163221.1 EST_HUMAN 8352 1.3 4.00E-33 AL163285.2 NT 7595 12797 1.4 4.00E-33 AL163230.2 NT 9504 14589 1.6 4.00E-33 AL163230.	n09g01.x1 NCL_CGAY_N013 nome separate curva come invace-or receive contains MER29.b3 MER29 repetitive element:	EST_HUMAN	BE350127.1	3.00E-33	1.5			1073
9854 14741 1.0 1.00E-31 AL134376.1 EST_HUMAN 9854 14742 1.0 1.00E-31 AL134376.1 EST_HUMAN 7986 1.0 9.00E-32 U50871.1 NT 7145 12347 1.2 8.00E-32 U50871.1 NT 7788 12988 0.9 6.00E-32 AL165270.1 EST_HUMAN 6158 11311 10.0 5.00E-32 AL163246.2 NT 66061 10745 1.2 3.00E-32 AL163246.2 NT 98893 14986 0.9 2.00E-32 BE296613.1 EST_HUMAN 8577 5.0 9.00E-33 BE327112.1 EST_HUMAN 8583 10382 0.7 7.00E-33 BE327112.1 EST_HUMAN 8352 12434 1.0 7.00E-33 AL163285.2 NT 6874 12158 1.4 5.00E-33 AL163285.2 NT 6874 12158 1.4 5.00E-33 AL163285.2 NT 7333 1.3 5.00E-33 AL163285.2 NT 7333 1.3 5.00E-33 AL163285.2 NT 7472 2.7 4.00E-33 AL626621.1 EST_HUMAN 7595 12797 1.4 4.00E-33 AL626621.1 EST_HUMAN	UI-H-BI2-ahl-c-03-0-UI.s1 NCI_CGAP_Sub4 Homo sapiens cDNA done IMAGE:2727149 3'	EST_HUMAN	AW293349.1	4.00E-33	1.6	14589		4382
9854 14741 1.0 1.00E-31 AL134376.1 EST_HUMAN 9854 14742 1.0 1.00E-32 JU50871.1 INT 7986 1.2 1.0 9.00E-32 JU50871.1 INT 7145 12347 1.2 8.00E-32 JU50871.1 INT 7145 12347 1.2 7.00E-32 JU50871.1 INT 7188 12988 0.9 6.00E-32 JA178104.1 EST_HUMAN 6158 11311 10.0 5.00E-32 JA178246.2 INT 6158 11311 0.0 7.00E-33 JA163246.2 INT 6158 11311 0.0 7.00E-33 JA163285.2 INT 6158 11311 0.0 7.00E-33 JA163285.2 INT 6158 1131 0.3 5.00E-33 JA163285.2 INT 6158 11311 0.0 5.00E-33 JA163285.2 INT 6158 1.4 5.00E-33 JA1	Homo sapiens chromosome 21 segment HS21C010	NT	AL163210.2		1.4	12797	I	2498
9854 14741 1.0 1.00E-31 AL134376.1 EST_HUMAN 9854 14742 1.0 1.00E-32 U50871.1 NT 7986 1.2347 1.2 8.00E-32 U50871.1 NT 7145 12347 1.2 8.00E-32 D50871.1 NT 7788 12988 0.9 6.00E-32 AI056770.1 EST_HUMAN 6158 11311 10.0 5.00E-32 AF116627.1 NT 6061 0.6 4.00E-32 AF116627.1 NT 5614 10745 1.2 3.00E-32 AF1263246.2 NT 5263 10382 0.7 7.00E-33 BE296613.1 EST_HUMAN 8577 5.0 9.00E-33 BE296613.1 EST_HUMAN 85263 10383 0.7 7.00E-33 BE327112.1 EST_HUMAN 8352 12434 1.0 7.00E-33 AU590115.1 EST_HUMAN 8352 NT HUMAN	ab51b11.r1 Stratagene lung carcinoma 937218 Homo sapiens cDNA clone IMAGE:844317 5' similar to contains Alu repetitive element;contains MER28.b2 MER28 repetitive element;	EST_HUMAN	AA626621.1	Į.	2.7			2370
9854 14741 1.0 1.00E-31 AL134376.1 EST_HUMAN 9654 14742 1.0 1.00E-31 AL134376.1 EST_HUMAN 7986 1.2 1.0 9.00E-32 U50871.1 NT 7986 12347 1.2 8.00E-32 U50871.1 NT 7986 12347 1.2 8.00E-32 AI056770.1 EST_HUMAN 7745 12347 1.2 7.00E-32 AI056770.1 EST_HUMAN 9865 14958 0.9 6.00E-32 AI178104.1 EST_HUMAN 6158 11311 10.0 5.00E-32 AI16327.1 NT 6158 11311 10.0 5.00E-32 AI163246.2 NT 6158 11311 10.0 5.00E-32 AI163246.2 NT 7.00E-33 14986 0.9 2.00E-32 AI163246.2 NT 7.00E-33 10382 0.7 7.00E-33 BE327112.1 EST_HUMAN 7.226 12434 1.0 7.00E-33 AI590115.1 EST_HUMAN 8852 12.9 7.00E-33 AI590115.1 EST_HUMAN 6974 12158 1.4 5.00E-33 AL163285.2 NT 6674 12159 1.4 5.00E-33 AL163285.2 NT 66749 3.3 4.00E-33 AL163285.2 NT	Homo sapiens RAB1, member RAS oncogene iditility (INSO I) illinias	NT	4758987	4.00E-33	0.6	12393	7190	2078
9854 14741 1.0 1.00E-31 AL134376.1 EST_HUMAN 9654 14742 1.0 1.00E-32 JU50871.1 NT 7986 12347 1.2 8.00E-32 JU50871.1 NT 7145 12347 1.2 8.00E-32 JU50871.1 NT 7788 12988 0.9 6.00E-32 AI056770.1 EST_HUMAN 6158 11311 10.0 5.00E-32 AL163246.2 NT 6061 10745 1.2 3.00E-32 AL163246.2 NT 6061 10382 0.7 7.00E-33 BE327112.1 EST_HUMAN 8577 5263 10382 0.7 7.00E-33 BE327112.1 EST_HUMAN 8352 12434 1.0 7.00E-33 AL590115.1 EST_HUMAN 8352 12434 1.0 7.00E-33 AL590115.1 EST_HUMAN 8615 0.9 6.00E-33 AL63285.2 NT 6674 12158 1.4 5.00E-33 AL163285.2 NT 7733 1.3 5.00E-33 AL163285.2 NT	Homo sapiens chromosome 21 segment HSZ1CCU/	NT		4.00E-33	3.3		6249	1112
9854 14741 1.0 1.00E-31 AL134376.1 EST_HUMAN 9654 14742 1.0 1.00E-32 JU50871.1 INT 7986 1.2 1.0 9.00E-32 JU50871.1 INT 7145 12347 1.2 8.00E-32 JU508770.1 EST_HUMAN 9865 14958 1.2 7.00E-32 P52591 SWISSPROT 7788 12988 0.9 6.00E-32 AL163246.2 INT 6061 10745 1.2 3.00E-32 AL163246.2 INT 6061 10745 1.2 3.00E-32 AL163246.2 INT 6061 10745 1.2 3.00E-32 AL163246.2 INT 5263 10382 0.7 7.00E-33 BE327112.1 EST_HUMAN 8577 5.0 9.00E-33 BE327112.1 EST_HUMAN 85263 10382 0.7 7.00E-33 BE327112.1 EST_HUMAN 8352 12434 1.0 7.00E-33 AL590115.1 EST_HUMAN 8352 12434 1.0 7.00E-33 AL63285.2 INT 6674 12158 1.4 5.00E-33 AL163285.2 INT 6674 12159 1.4 5.00E-33 AL63285.2 INT	Homo sapiens chromosome 21 segment HSZ1CU85	NT	AL163285.2		1.3			2226
9854 14741 1.0 1.00E-31 AL134376.1 EST_HUMAN 9654 14742 1.0 1.00E-32 JU50871.1 NT 7986 1.0 9.00E-32 JU50871.1 NT 7145 12347 1.2 8.00E-32 AI056770.1 EST_HUMAN 9865 14958 1.2 7.00E-32 P52591 SWISSPROT 7788 12988 0.9 6.00E-32 AI478104.1 EST_HUMAN 6158 11311 10.0 5.00E-32 AI163246.2 NT 6061 10745 1.2 3.00E-32 AI163246.2 NT 5263 10382 0.7 7.00E-33 BE327112.1 EST_HUMAN 8352 12434 1.0 7.00E-33 AI590115.1 EST_HUMAN 8352 12434 1.0 7.00E-33 AV8971307.1 EST_HUMAN 8815 0.9 6.00E-33 AL163285.2 NT 6974 12158 1.4 5.00E-33 AL163285.2 NT	Homo sapiens spermidine synthase (SRM) mRNA	NT	4507208	5.00E-33	1.4	12159	6974	1856
9854 14741 1.0 1.00E-31 AL134376.1 EST_HUMAN 9654 14742 1.0 1.00E-32 JU50871.1 NT 7986 1.0 9.00E-32 JU50871.1 NT 7145 12347 1.2 8.00E-32 AI056770.1 EST_HUMAN 9865 14958 1.2 7.00E-32 P52591 SWISSPROT 7788 12988 0.9 6.00E-32 AI478104.1 EST_HUMAN 6158 11311 10.0 5.00E-32 AL163246.2 NT 6661 10745 1.2 3.00E-32 AL163246.2 NT 98893 14986 0.9 2.00E-32 BE296613.1 EST_HUMAN 8577 5.0 9.00E-33 BE327112.1 EST_HUMAN 85263 10382 0.7 7.00E-33 BE327112.1 EST_HUMAN 8352 12434 1.0 7.00E-33 AV9971307.1 EST_HUMAN 8815 0.9 6.00E-33 AL163285.2 NT	Homo saplens spermidine synthase (SRM) mRNA	NT	4507208	5.00E-33	1.4	12158	6974	1856
9854 14741 1.0 1.00E-31 AL134376.1 EST_HUMAN 9654 14742 1.0 1.00E-32 JU50871.1 NT 7986 1.0 9.00E-32 JU50871.1 NT 7145 12347 1.2 8.00E-32 AI056770.1 EST_HUMAN 9865 14958 1.2 7.00E-32 P52591 SWISSPROT 7788 12988 0.9 6.00E-32 AI478104.1 EST_HUMAN 6158 11311 10.0 5.00E-32 AF116627.1 NT 5614 10745 1.2 3.00E-32 AL163246.2 NT 5614 10745 1.2 3.00E-32 AF1293.1 NT 9863 14986 0.9 2.00E-33 BE327112.1 EST_HUMAN 8577 5.0 9.00E-33 BE327112.1 EST_HUMAN 5263 10382 0.7 7.00E-33 S031736 NT 5263 10383 0.7 7.00E-33 AI590115.1 EST_HUMAN 8352 12434 1.0 7.00E-33 AV9971307.1 EST_HUMAN	Homo saplens chromosome 21 segment HS21CU85	N.	AL163285.2		0.9		8815	3676
9854 14741 1.0 1.00E-31 AL134376.1 EST_HUMAN 9654 14742 1.0 1.00E-32 JU50871.1 NT 7986 1.0 9.00E-32 JU50871.1 NT 7145 12347 1.2 8.00E-32 AI056770.1 EST_HUMAN 9865 14958 1.2 7.00E-32 P52591 SWISSPROT 7788 12988 0.9 6.00E-32 AI478104.1 EST_HUMAN 6158 11311 10.0 5.00E-32 AF116627.1 NT 6061 0.6 4.00E-32 AL163246.2 NT 5614 10745 1.2 3.00E-32 AF1293.1 NT 9883 14986 0.9 2.00E-32 BE296613.1 EST_HUMAN 8577 5.0 9.00E-33 BE327112.1 EST_HUMAN 5263 10382 0.7 7.00E-33 BE327112.1 EST_HUMAN 5263 10383 0.7 7.00E-33 AI590115.1 EST_HUMAN	EST383396 MAGE resequences, MAGL Homo sapiens CUNA	EST_HUMAN		7.00E-33	12.9		8352	3204
9854 14741 1.0 1.00E-31 AL134376.1 EST_HUMAN 9654 14742 1.0 1.00E-32 AL134376.1 EST_HUMAN 7986 1.0 9.00E-32 U50871.1 NT 7145 12347 1.2 8.00E-32 AI056770.1 EST_HUMAN 9865 14958 1.2 7.00E-32 P52591 SWISSPROT 7788 12988 0.9 6.00E-32 AI478104.1 EST_HUMAN 6158 11311 10.0 5.00E-32 AF116627.1 NT 6061 10745 1.2 3.00E-32 AL163246.2 NT 6061 10745 1.2 3.00E-32 AL163246.2 NT 98893 14986 0.9 2.00E-32 BE296613.1 EST_HUMAN 8577 5.0 9.00E-33 BE327112.1 EST_HUMAN 5263 10382 0.7 7.00E-33 BE327112.1 EST_HUMAN 5263 10383 0.7 7.00E-33 S031736 NT	contains OFR.11 OFR repetitive element:	EST_HUMAN		7.00E-33	1.0	12434	7226	2115
9854 14741 1.0 1.00E-31 AL134376.1 EST_HUMAN 9654 14742 1.0 1.00E-32 AL134376.1 EST_HUMAN 7986 1.0 9.00E-32 U50871.1 NT 7145 12347 1.2 8.00E-32 AI056770.1 EST_HUMAN 9865 14958 1.2 7.00E-32 P52591 SWISSPROT 7788 12988 0.9 6.00E-32 AI478104.1 EST_HUMAN 6158 11311 10.0 5.00E-32 AF116627.1 NT 6061 0.6 4.00E-32 AL163246.2 NT 6061 10745 1.2 3.00E-32 AL163246.2 NT 9883 14986 0.9 2.00E-32 BE296613.1 EST_HUMAN 8577 5.0 9.00E-33 BE327112.1 EST_HUMAN 8577 5.0 9.00E-33 BE327112.1 EST_HUMAN		NT	5031736	7.00E-33	0.7	10383	5263	2
9854 14741 1.0 1.00E-31 AL134376.1 EST_HUMAN 9854 14742 1.0 1.00E-31 AL134376.1 EST_HUMAN 7986 1.0 9.00E-32 U50871.1 NT 7145 12347 1.2 8.00E-32 U50871.1 NT 9865 14958 1.2 7.00E-32 P52591 SWISSPROT 6158 12988 0.9 6.00E-32 AL163246.2 NT 6061 0.6 4.00E-32 AL163246.2 NT 6064 10745 1.2 3.00E-32 AL163246.2 NT 9883 14986 0.9 2.00E-32 BE296613.1 EST_HUMAN 8577 5.0 9.00E-33 BE327112.1 EST_HUMAN	Homo sapiens short-chain alcohol dehydrogenase family member (HEP27) MKNA	NT	5031736	7.00E-33	0.7	10382	5263	2
9854 14741 1.0 1.00E-31 AL134376.1 EST_HUMAN 9654 14742 1.0 1.00E-31 AL134376.1 EST_HUMAN 7986 1.0 9.00E-32 U50871.1 NT 7145 12347 1.2 8.00E-32 U50871.1 NT 9865 14958 1.2 7.00E-32 AI056770.1 EST_HUMAN 9865 14958 0.9 6.00E-32 AI476104.1 EST_HUMAN 6158 11311 10.0 5.00E-32 AI476104.1 NT 6061 0.6 4.00E-32 AI163246.2 NT 5614 10745 1.2 3.00E-32 AI163246.2 NT 9893 14986 0.9 2.00E-32 BE296613.1 EST_HUMAN	hw07c05.x1 NCI_CGAP_Lu24 Homo sapiens CUNA Gone invage:31e221e 3 siiiliidi to TR:088539 O88539 WW DOMAIN BINDING PROTEIN 11.;	EST_HUMAN		9.00E-33	5.0		8577	3435
9854 14741 1.0 1.00E-31 AL134376.1 EST_HUMAN 9854 14742 1.0 1.00E-31 AL134376.1 EST_HUMAN 7986 1.0 9.00E-32 U50871.1 NT 7145 12347 1.2 8.00E-32 AI056770.1 EST_HUMAN 9885 14958 1.2 7.00E-32 P52591 SWISSPROT 7788 12988 0.9 6.00E-32 AI478104.1 EST_HUMAN 6158 11311 10.0 5.00E-32 AI478104.1 EST_HUMAN 6061 0.6 4.00E-32 AL163246.2 NT 5614 10745 1.2 3.00E-32 Y17293.1 NT	601173631F1 NIH MGC 17 Homo sapiens cDNA clone IMAGE:3529159 5	EST_HUMAN			0.9	14986	9893	4783
9854 14741 1.0 1.00E-31 AL134376.1 EST_HUMAN 9854 14742 1.0 1.00E-31 AL134376.1 EST_HUMAN 7986 1.0 9.00E-32 U50871.1 NT 7145 12347 1.2 8.00E-32 AI056770.1 EST_HUMAN 9865 14958 1.2 7.00E-32 P52591 SWISSPROT 7788 12988 0.9 6.00E-32 AI478104.1 EST_HUMAN 6158 11311 10.0 5.00E-32 AF116627.1 NT	Homo saplens FLI-1 gene, partial	NT			1.2	10745	5614	448
9854 14741 1.0 1.00E-31 AL134376.1 EST_HUMAN 9854 14742 1.0 1.00E-31 AL134376.1 EST_HUMAN 7986 1.0 9.00E-32 U50871.1 NT 7145 12347 1.2 8.00E-32 AI056770.1 EST_HUMAN 9865 14958 1.2 7.00E-32 P52591 SWISSPROT 7788 12988 0.9 6.00E-32 AI478104.1 EST_HUMAN 6158 11311 10.0 5.00E-32 AF116627.1 NT	Homo saplens chromosome 21 segment HS21C046	NT		_	0.6		6061	915
9854 14741 1.0 1.00E-31 AL134376.1 EST_HUMAN 9854 14742 1.0 1.00E-31 AL134376.1 EST_HUMAN 7986 1.0 9.00E-32 U50871.1 NT 7145 12347 1.2 8.00E-32 AI056770.1 EST_HUMAN 9865 14958 1.2 7.00E-32 P52591 SWISSPROT 7788 12988 0.9 6.00E-32 AI478104.1 EST_HUMAN	Homo saplens PRO1181 mRNA, complete cds	NT	AF116627.1		10.0	11311	6158	1018
9854 14741 1.0 1.00E-31 AL134376.1 EST_HUMAN 9854 14742 1.0 1.00E-31 AL134376.1 EST_HUMAN 7986 1.0 9.00E-32 U50871.1 NT 7145 12347 1.2 8.00E-32 AI056770.1 EST_HUMAN 9865 14958 1.2 7.00E-32 P52591 SWISSPROT	contains MER29:13 MER29 repetitive element;		AI478104.1		0.9	12988	7788	2702
9854 14741 1.0 1.00E-31 AL134376.1 EST_HUMAN 9854 14742 1.0 1.00E-31 AL134376.1 EST_HUMAN 7986 1.0 9.00E-32 U50871.1 NT 7145 12347 1.2 8.00E-32 AI056770.1 EST_HUMAN	PROTEIN OF 121 KD) (P145)	SWISSPROT	P52591		1.2	14958	9865	4754
9854 14741 1.0 1.00E-31 AL134376.1 EST_HUMAN 9654 14742 1.0 1.00E-31 AL134376.1 EST_HUMAN 7986 1.0 9.00E-32 U50871.1 NT		EST_HUMAN	AI056770.1		1.2	12347	7145	2032
9854 14741 1.0 1.00E-31 AL134376.1 EST_HUMAN 9654 14742 1.0 1.00E-31 AL134376.1 EST_HUMAN		N			1.0		7986	2835
9654 14741 1.0 1.00E-31 AL134376.1 EST_HUMAN	DKFZp547B235_r1 547 (synonym: hfbr1) Homo saplens cDNA clone DKFZp547B235 5	EST_HUMAN			1.0	14742	9654	4535
The section of the se	DKFZp547B235_r1 547 (synonym: hfbr1) Homo saplens cDNA done DKFZp547B235 5'	EST_HUMAN	AL134376.1	1.00E-31	1.0	14741	9854	4535

Homo saplens Grb2-associated binder 2 (KIAA0571), mRNA	NT	6912459 NT	2.00E-35	· 1.0	13523	8417	3272
Homo sapiens Grb2-associated binder 2 (KIAA0571), mRNA	NT	6912459 NT	2.00E-35	1.9	12493	7280	2171
Homo sapiens Grb2-associated binder 2 (KIAA0571), mRNA	NT	6912459 NT	2.00E-35	0.7	11491	6335	1203
A971F Heart Homo sapiens cDNA clone A971	EST_HUMAN	T11909.1	2.00E-35	1.3	11460	6305	1171
K6932F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone K6932 5' similar to REPETITIVE ELEMENT	EST_HUMAN	N88965.1		0.6	10434	7881	103
Homo sapiens phospholipid scrambiase 1 gene, complete cds	NT	AF224492.1	3.00E-35	0.9		7389	2283
801125260F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3345063 5'	EST_HUMAN	BE268182.1	3.00E-35	3.5	11856	6688	1561
601300705F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635401 5'	EST_HUMAN	4.00E-35  BE409102.1	4.00E-35	1.3		10142	5042
yudkaur, n Soares fetai liver spieen i NFLS Homo sapiens cUNA cione IMAGE:241236 5 similar to contains PTR5 repetitive element;	EST_HUMAN	Н91193.1	4.00E-35 H91193.1	1.9	12084	6897	1776
601109719F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350405 5	EST_HUMAN	BE257907.1	4.00E-35	5.4	11718	6543	1415
thrombospondin3 (THBS3) gene, partial cds		AF023268.1		2.2	14524	9434	4311
Homo saplens ck2 kinase (CEK2), propin1, cote1, glucocerebrosidase (GBA), and metaxin genes, complete cds; metaxin pseudogene and glucocerebrosidase pseudogene; and							
H.sapiens immunoglobulin kappa light chain variable region L14	TN	X63392.1	5.00E-35	0.8	11986	6805	1681
Homo saplens zinc finger protein 208 (ZNF208), mRNA	N <sub>T</sub>	6005975	<u>.                                      </u>	0.6	12231	7042	1925
ah53h03.s1 Soares_testis_NHT Homo sapiens cDNA clone 1309397 3'	EST_HUMAN	AA757115.1	6.00E-35	1.3	11686	6518	1391
Homo sapiens prohibitin (PHB) mRNA	NT	6031190 NT	8.00E-35	8.3		5411	219
hh77b06.y1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2968787 5'	EST_HUMAN			1.3	13828	8733	3594
MR0-CT0068-280999-002-d11 CT0068 Homo saplens cDNA	EST_HUMAN	AW845706.1	1.00E-34	0.9		10027	4920
RC2-BT0506-240400-016-h08 BT0506 Homo saplens cDNA	EST_HUMAN	BE071414.1		4.0		9503	4381
Homo sapiens X-linked anhidroitic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions	NT	AF003528.1	1.00E-34	1.5	13852	8760	3621
ADP,ATP CARRIER PROTEIN, LIVER ISOFORM T2 (ADP/ATP TRANSLOCASE 3) (ADENINE NUCLEOTIDE TRANSLOCATOR 3) (ANT 3)	SWISSPROT	P12236	1.00E-34	3.1	11786	6615	1488
Homo sapiens hypothetical protein FLJ10989 (FLJ10989), mRNA	NT	8922807	4.00E-34	1.0	12973	7774	2687
tt94c06.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2249194 3'	EST_HUMAN	AI804667.1	4.00E-34	0.8	12267	7070	1953
Human splicing factor SRp55-1 (SRp-55) mRNA, complete cds	NT	U30883.1	5.00E-34	4.0	15163	10096	4993
EST188123 HCC cell line (matastasis to liver in mouse) il Homo sapiens cDNA 5' end similar to similar to SKD3	EST_HUMAN	AA316404.1	5.00E-34	1.1		9485	4363
Homo sapiens Npw38-binding protein Npw8P (LOC51729), mRNA	NT	7706500 NT	5.00E-34	8.0		6956	1837
Human G2 protein mRNA, partial cds	NT	U10991.1	6.00E-34	1.5	10758	5628	463
Human G2 protein mRNA, partial cds	NT	U10991.1	6.00E-34	1.5	10757	5628	463
yd15e05.r1 Soares fetal liver spieen 1NFLS Homo sapiens cDNA clone IMAGE:108320 5'	EST_HUMAN	T70845.1	7.00E-34	0.7	11730	6554	1427
Homo sapiens X-linked anhidrottic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions	NT	AF003528.1	1.00E-33	1.4		5216	8
ab51g11.r1 Stratagene lung carcinoma 837218 Homo sapiens cDNA clone IMAGE:844388 5' similar to gb:X00734_cds1 TUBULIN BETA-5 CHAIN (HUMAN);	EST_HUMAN	AA626683.1	2.00E-33	5.1	15097	10018	4911
MR0-HT0405-160300-202-d08 HT0405 Homo saplens cDNA	EST_HUMAN	BE159039.1	2.00E-33	4.3		9445	4322

7570 0698 2.6 2.00E.35 HA0230 1 EST HIMAN	3835 8972 14072 1.1 2.00E-35 BE247575.1 EST_HUMAN	3835 8972 14071 1.1 2.00E-35 BE247575.1 EST_HUMAN	3511 8652 0.9 2.00E-35 AB020702.1 NT	3272 8417 13524 1.0 2.00E-35 6912459 NT
yq19a12.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:274079 5'	TCBAP2E4328 Pediatric pre-B ceil acute lymphoblastic feukemia Baylor-HGSC  WAN project=TCBA Homo sapiens cDNA clone TCBAP4328		Homo sapiens mRNA for KIAA0885 protein, partial cds	Homo sapiens Grb2-associated binder 2 (KIAA0571), mRNA

2820020.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:/2820020.5	EST_HUMAN	AW247772.1	4.00E-36	0.6		7284	2175
601288574F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3628386 5'	EST_HUMAN	BE382574.1	4.00E-36	0.6	11921	6752	1626
RETROVIRUS-RELATED POL POLYPROTEIN (CONTAINS: REVERSE TRANSCRIPTASE : ENDONUCLEASE)	SWISSPROT	P10266	4.00E-36	0.6	11728	6551	1424
PM3-BN0176-100400-001-g04 BN0176 Homo sapiens cDNA	EST HUMAN	BE010038.1	4.00E-36	1,4	11493	6337	1205
Homo saplens APIS-like 1 (APISL1), mRNA	NT	5729729 NT	5.00E-36	1.4	14891	9790	4678
Homo sapiens API5-like 1 (API5L1), mRNA	NT	5729729 NT	5.00E-36	1.4	14890	9790	4678
Homo sapiens chromosome 21 segment HS21C009	NT	AL163209.2	5.00E-36	2.0	13796	8700	3561
601285567F1 NIH_MGC_44 Homo saplens cDNA clone IMAGE:3607289 5	EST HUMAN	BE388436.1	5.00E-36	2.8	13010	7806	2722
Homo sapiens Xq pseudoautosomal region; segment 1/2		AJ271735.1	5.00E-36	2.3	10460	5329	133
Homo saplens TCL6 gene, exon 12	NT	AB035346.1	6.00E-36	2.2		7469	2367
Homo sapiens ninjurin 2 (NINJ2), mRNA	NT	7706622 NT	6.00E-36	0.7	12273	7076	1959
Homo saplens C-terminal binding protein 2 (CTBP2) mRNA	T	4557498 NT	7.00E-36	4.0		8231	3080
1-4	EST HUMAN	AW857579.1	7.00E-36	0.9	13154	8051	2900
Mus musculus activin receptor Interacting protein 1 (Arlp1-pending), mRNA	NT	6905	1.00E-35	4.7	14536	9448	4325
Mus musculus activin receptor interacting protein 1 (Arip1-pending), mRNA	NT	7656905 NT	1.00E-35	4.7	14535	9448	4325
Homo sapiens transcription elongation factor B (SIII), polypeptide 1-like (TCEB1L) mRNA	NT	6006030 NT	1.00E-35	1.1	13358	8254	3104
y/32c04.s1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:140934 31	EST_HUMAN	R67324.1	1.00E-35	5.6	13348	8245	3094
y/32c04.s1 Soares placenta Nb2HP Homo saplens cDNA clone IMAGE:140934 3'	EST_HUMAN	R67324.1	1.00E-35	5.6	13347	8245	3094
ht09g01.x1 NCI_CGAP_Kid13 Homo septens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3 MER29 repetitive element;	EST_HUMAN	BE350127.1	1.00E-35	<u>:</u>	13029	7824	2740
ht09g01.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3 MER29 repetitive element;	EST_HUMAN	BE350127.1	1.00E-35	1.1	13028	7824	2740
Homo saplens hypothetical protein (LOC51233), mRNA	NT	7705994	1.00E-35	0.8	12794	7591	2495
	EST_HUMAN	T87947.1	1.00E-35	1.2		6039	891
	EST_HUMAN	AW389473.1	1.00E-35	15.0	11033	5889	735
IL2-ST0162-131099-006-d12 ST0162 Homo sapiens cDNA	EST_HUMAN	AW389473.1	1.00E-35	15.0	11032	5889	735
fmfc16 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR12-1	EST_HUMAN	AA631949.1	1.00E-35	1.5	10361	5250	40
fmfc16 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR12-1	EST_HUMAN	AA631949.1	1.00E-35	1.5	10360	5250	40
yq19a12.r1 Soares fetal liver spieen 1NFLS Homo sapiens cDNA clone IMAGE:274079 5'	EST_HUMAN	H49239.1	2.00E-35	2.6		9688	4570
TCBAP2E4328 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP4328	EST_HUMAN	BE247575.1	2.00E-35	1.1	14072	8972	3835
TCBAP2E4328 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA cione TCBAP4328	EST_HUMAN	BE247575.1	2.00E-35	1.1	14071	8972	3835
Homo sapiens mRNA for KIAA0895 protein, partial cds	TN	AB020702.1	2.00€-35	0.9		8652	3511
Homo sapiens Grb2-associated binder 2 (KIAA0571), mRNA	NT	6912459 NT	2.00E-35	1.0	13524	22	3272

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2053	1783	113	113	2404	710	2135	3878	2041	1141	3818	1921	4072	2936	2465	1970	1970	5160	2374		1263	5143	2155	2098	2098	867	4877	3132	3005	2252	681	3310	3310	2707	2707
3 7165	3 6903	3 5314		1	Т	7	П	7154		8955	7038	9199			7085	7085	10255		T	6392	10238	7265	7209	7209	6015	9984	8281	8157	7358	5836	8455	8455	7792	7792
5	l s	10442	10441	12710	П	12452	.14109	12360	11429	14051	12227	14285			12288	12287		12677			15313	12474	12417	12416	11175	15066	13389	13258	12565	10969	13569	13568	12993	12992
1.6	1.4	2.6	2.6		1.2	1.4	22.5	1.3	0.8	5.1	0.5		3.0	0.6	1.0	1.0	1.1	0.8		0.9	1.4	1.3	8.0	0.9	0.7	4.6	2.7	1.8	0.9	0.9	3.2	3.2	0.9	0.9
3.00E-38	4.00E-38	4.00E-38	4.00E-38	5.00E-38	5.00E-38	7.00E-38	1.00E-37	1.00E-37	1.00E-37	2.00E-37	2.00E-37	3.00E-37	3.00E-37	3.00E-37	3.00E-37	3.00E-37	4.00E-3/	4.00E-37		7.00E-37	8.00E-37		1.005-30	1.001-36	1.001-30			_	1			_		
AF003530.1	AA362470.1	_	-	_	_	7.00E-38 AW972825.1	AF189011.1				AL163247.2		LIGEMA	AW961150.1	AL048956.1	AL048956.1	LICOZON			AL042800.1	AB020684.1	AW205546.1	DE 140020. 1	1.00E-36 BE146523.1	DE4/6523 4	AW8803/6.1	BE259267.1	BE25/054.1	/602401 NI	AFU998TU.T	BE389288.1	BE389298.1	AI392661.1	Al392661.1
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regions	Homo sapiens homeobox protein CDX4 (CDX4) gene, complete cds and flanking repeat	nn54f12 s1 NCI CGAP Kid6 Homo sapiens cDNA clone IMAGE:1087727 3'	D. Jaurus IIIII Dariori di la separtata aminotransferasa mRNA, complete CDS	Totalo sapielis nibilit generatate aminotransferase mRNA, complete CDS	ES 1383908 MAGE resequences, mage inditional septembers.			TOTILO Sabrata Milotiosonio El Seguino.	Z840000.1   Sudies Istalia NZDTIIN ISTING SEPTIME STATE STAT	cerebrotendinous xanthomatosis), polypeptide 1 (CYP27A1b) mRNA	Homo sapiens cytochrome P450, subfamily XXVIIA (steroid 27-hydroxylase,	Home applicas phomosome 21 segment HS21C047	Long positions by northering in moterin FL (2037) (FL (2037), mRNA	ES 13/3222 MAGE resentiences, MAGF Homo sapiens cDNA	DKFZp434L2418_r1 434 (synonym: htes3) Homo sapiens cDNA clone UKFZp434L24 to			EST52n10 WATM1 Homo sablens cDNA done 52g10 similar to human STS G04101	zi90b04.s1 Soares_fetal_liver_spieen_ inrts_s i nomo septems control c	DKFZp434E0422_r1 434 (synonym: htes3) Homo sapiens cDNA clone UKrZp434E0422_r1 434 (synonym: htes3) Homo sapiens cDNA clone IMAGE:448015		UI-H-Bit-adt-a-09-0-UI-St NCI_CGAr_Substitutions appears with the services mRNA for KIAA0877 protein, partial cds		RC1-HT0217-131199-021-h07 HT0217 Homo sapiens cDNA	RC1-HT0217-131199-021-h07 HT0217 Homo sapiens cDNA	601300938F1 NIH MGC 21 Homo sapiens cDNA clone IMAGE:3635480 5	OVA-010030-24030b-174-h04 OT0030 Homo sapiens cDNA	SOLITORIANEL NIH MGC 16 Homo sapiens cDNA cione IMAGE:3342706 5	India Sapara NiH MGC 7 Homo saplens cDNA clone IMAGE:3537590 5'	Lomo saniens KIAA0952 protein (KIAA0952), mRNA	Lomo saniene neurexin ill-alpha gene, partial cds	Ign1282266F1 NIH MGC 44 Homo sapiens cDNA clone IMAGE:3604168 5	Ign1282286E1 NIH MGC 44 Homo saplens cDNA clone IMAGE:3604168 5	to47b01.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2111881 3'

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	femerals Beninnal genomic DNA specific cDNA library Homo sapiens cDNA done CR 12-1	Homo sapiens chromosome 21 segment risk footby	Chlorocabus aethlops mRNA for noosullal process of the control of	repetitive element:	at36b04.x1 Barstead colon HPLRB7 Homo sapiens CUNA Gold INFOCE.	flanking repeat regions	Homo sapiens X-linked anhidroitic ectodermal dysplasia protein gene (CCC)	Homo saplens chromosome 21 segment HS21C027	wh53f10.x1 NCL CGAP_Kid11 Homo saprens with the same payago POL PROTEIN;	Homo sapiens estrogen receptor-binding fragment-associated gend a (CCCC)	MRNA	Homo sapiens ATPase, H+ transporting, lysosomal (vacuolar proton pump) Toku (ATT GC)	Long esplans hypothetical protein FLJ10600 (FLJ10600), MKNA	Homo saplens chromosome 21 segment HS21C003	Homo saniens chromosome 21 segment HS21C003	Homo sapiens low delisity iipoprovenii acception	Homo sapiens mixixa for Niconstein recentor-related protein 6 (LRP6) mRNA, and	TOUTO Septents of Wight 1442 protein, partial cds	Long capters cyclin K (CCNK) gene, exon 7	Lamb sanlane KIAA0443 gene product (KIAA0443), mRNA	Homo sapiens KIAA0173 gene product (KIAA0173), mRNA	Homo saplens quanine nucleotide binding protein-like 1 (GNL1), mr.	contains element MER19 repetitive element;	THESENOZITI Soares testis NHT Homo sapiens cDNA Gone IMAGE. 142333	2a94a04.r1 Soares fetal lung NbHL19W Homo sapielis Colin Social States States States	MANNOSIDASE ;	to SW:MA12_RABIT P45701 MANNOSYL-OLIGOSACCHARIDE ALFIN-1.2	Augustin Spares ovary tumor NeHOT Homo sapiens cDNA clone INACE. 70703 3 31111101	MANNOSIDASE;	IO SW:MA12_RABIT P45701 MANNOSYL-OLIGOSACCHARIDE ALTER-1,5	THE PARTY SOURCE OVERLY (UMOR NIGHOT HOMO SAPIENS CONA CLORE IMAGE: 10000 3 SIMILING	Home sapiens SMT3 (suppressor of mif two 3, yeast) homolog 2 (SMT3074), HINTER	Homo sapiens chromosome 21 segment HS21C048	601157633F1 NIH MGC 21 Homo sapiens cDNA cone IMAGE. 3007272		SSU72 PROTEIN	Homo sapiens HIRA Interacting protein 4 (cnau-like) (Thirt 4), """	NAMA (VOIDILA) VAIII I VAIII V

IR:0/3505 0/3505 FOL FNO ICIN.	EST_HUMAN	A1686005.1	4.00E-40	<u>.</u>	10130	3	1824
Die:					_	┰	1
Homo sapiens chromosome at segment that the MAGE 2248873 3' similar to	3	AL163285.2	5.00E-40	0.7		╗	2561
protein family	EST_HUMAN	AA361275.1	6.00E-40	1.4	12982	7782	2696
protein family  EST70527 T-cell tymphoma Homo saplens cDNA 5' end similar to similar to zinc finger	EST_HUMAN	AA361275.1	6.00E-40	1.4	12981	7782	2696
EST70527 T-cell lymphoma Homo saplens cDNA 5' end similar to similar to zinc finger		00000041.1	0.000-40	2.4		8983	3847
601288958F1 NIH MGC 8 Homo saplens cDNA clone IMAGE:3619166 5'	EST HIMAN	AAU/8165.1	8.005-40	1.0	13257		3004
THATEANA Chromosome 7 HeLa cDNA Library Homo sapiens cDNA clone 7H15A04	SNI LIMAN	4507848 NT	9.00€-40	1.1	14455	П	4398
	NI	4507848 NI	9.00E-40	0.8		$\neg \tau$	4250
Homo sapiens mixix for Nixx 1244 protein, period (September 1-3) (USP13) mRNA	NT N	AB033070.1	9.00€-40	3.6	14118	$\Box$	3892
pseudoinflammatory (TIMP3) RNA	NT	4507512 NT	9.00E-40	1.8	11737	6560	1433
Logo socione tiesuse inhibitor of metalloproteinase 3 (Sorsby fundus dystrophy,	2	4755145 NI	9.00€-40	3.5	11504		1215
TOTTO Sabiats AE binding protein 1 (AEBP1) mRNA	2	4755145 NI	9.00€-40	3.5	11503	_ [	1215
Homo sapiens Our-glucose pyropicospiro piece - 1000	NT NT	5803210 NT	9.00E-40	0.6	10826	П	543
nomo sapiens un apropio preschoviase 2 (LIGP2). mRNA	NI	7657020 NI	1.00E-39	8.6	14811	9718	4604
ES 1354055 MAGE resequences, MAGE 130110 September 11.	EST_HUMAN	AW951995.1		5.5	14772	9679	4561
EST 364065 MAGE resequences MAGE Homo septems con A		AW951995.1	1.00E-39	5.5	14771	9679	4561
NHTBC_cn02c10 random  NACB Home sanions cDNA	EST_HUMAN	AI750362.1	1.00E-39	1.8	13063	7954	2802
NHTBC_cn02c10 random  NHTBC_cn02c10 random  NHTBC_cn02c10 random	EST_HUMAN	AI750362.1	1.00E-39	-1 :8	13062	7954	2802
notito sapiens divingen Trabecular Bone Cells Homo sapiens cDNA clone	2	7657020 NI	1.00E-39	1.8	11807	6841	1514
Homo sapiens NYLUI I gene Lamp sapiens NYLUI	N	AJ006345.1	_	0.6	11794	6623	1497
Homo sapiens AVLQ11 gene	NT	AJ006345.1		0.6	11793	6623	1497
Homo sapiens chromosoffie z i seginera i isz issze	NT	AL163248.2		0.6	12881	7680	2587
contains THR.13 THR repetitive element:	EST HUMAN		2.00E-39	10.0	12239	7047	1930
FIND BOOKE 1241138 3' similar to	EST TOWAY	2.00E-39 AW372318.1	2.00E-39	3.7		6640	1513
Phonic Sapreils Homeson 11 - 12 - 12 - 12 - 12 - 12 - 12 - 12	2	AF0005/3.1	2.00E-39	1.2		6155	1015
Lema sarione homogentisate 1 2-dioxydenase gene, complete cds	EST HOMAN	AI525119.1		5.9		6042	28 28
3 DOLS Shakings Home sapiens cDNA 5'	EST_HUMAN	2.00E-39 BE409203.1	2.00E-39	1.4		6027	879
transporter	EST_HUMAN	AA313045.1	3.00E-39	2.7	15089	10009	4902
fmfc16 Regional genomic DNA specific cDNA library Homo sapiens curve come constant for 183020 Pancreas tumor I Homo sapiens cDNA 5' end similar to similar to glucose	EST_HUMAN	AA631949.1	3.00E-39	3.8	10364	5251	4-
	EST_HUMAN	AA631949.1	3.00E-39 /	3.8	10363	5251	4_

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Ť	Ì	12271		12383	10596	11118	11117	15082					15011	15010	11930		13338		12644	12442	12339	12197	12130	43406	11830	11929			14253	12786	11975	14505		
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4.00E-41	5.00E-41	5.00E-41	5.00E-41	6.00E-41	6.00E-41	7.00E-41	7.00E-41	1.00€-40	1.00=-40	1.00E-40	1.00E-40	1.00=40	2.00E-40	2.00E-40	2.00E-40	2.00€-40	2.00E-40	2.00E-40	2.00E-40	2.00E-40	2.00E-40	2.00E-40		200€40	2.00E-40	2.00E-40	2.00E-40	2.00E-40	3.00E-40	3.00€-40	3.00E-40	4.00E-40	4.00E-40	
BE156316.1		AW8437		-	AB03/16		_	1-			BE018348.1	AAZZ5989.1		2.00E-40  AL163280.2	AW964909.1		5453592	BE275932.1		5453592	Al968562.1	4506188		4506188 NT	2.00E-40 AW984909.1	2.00E-40 AW984909.1	2.00E-40 AW303868.1	2.00E-40 AI223036.1	3.00E-40 AI925949.1	BE386406.1	7705948	7662117	AF003528.1	
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- 1	DVA-HT0367-150200-114-009 HT0367 Homo saplens cDNA	CM4-CNUM4-Z10100-00-00-00-00-00-00-00-00-00-00-00-0	YOUGH 10.8 I STRAIGH ORA ANA CHIDAA Homo sanians cDNA	23-10-1 Simboon ling (#937240) Homo saniens cDNA clone IMAGE:79626 3'	Thomas Spring Start Star	Homo esplane DSCR5h mRNA, complete cds	wp04ll04.5 1 NOL CGAP Kid11 Homo saplens cDNA clone IMAGE:2463895 3'	Figure 3 Prof. CGAP Kid11 Homo saplens cDNA clone IMAGE:2463895 3'	Homo sapisors CGL-85 protein (LOC51103), mRNA	Homo sapiens zinc finger protein 200 (ZNF200) mRNA, and translated products	TR: QBZ158 QBZ158 SYNTAXIN 17.:	hh70a10 v1 NIH MGC 10 Homo sapiens cDNA done IMAGE:3048570 5' similar to	noing sapietie Clickle Pri Homo sapiens cDNA done IMAGE:1007608	Homo sapiens Circumscome 21 segment HS21C080	ES 13/08/7 MAGE 1838quellos, INCOLLINITY SEPTEMBER 1	ES13/68/7 MAGE resequences, MAGH Homo septens cDNA	Pomo sapienis augustyji cyclaso uccomer Francisco CDNA	60112156/F1 NIH MGC 20 Hullo Sapieria Coro Caro IIII	Homo sapiens partial i IN gette ior duit	Monto sapiens agenty is cyclaso document from	TR: 091929 081929 ZING FINGER PROTEIN. :	and translated products	Homo saplens proteasome (prosome, macropain) subunit, alpha type, / (PSMA/) mkna,	and translated products	ES 1370877 WAGE resource macronain subunit alpha (vos. 7 (PSMA7) mRNA,	ESTUDIEST MAGE resequences MAGH Homo saplens cDNA	SW-RS5 MOUSE P97461 40S RIBOSOMAL PROTEIN S5.:	qgoznooxi soares lesses with home saniens cDNA clone IMAGE:2761098 3' similar to	WILLIOLAL INC. CONT. INC. 1981 STATE STATE OF THE STATE O	6012/35/0F1 NIT MGC 20 10:10 September CDNA clone IMAGE:2380549 3	Homo sapiens rec (LUCS 2201), 111/195	- 13	flanking repeat regions	Homo sapiens X-linked anhidroitic ectodermal dysplasia protein gene (EDA), exon 2 and

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431	131	4936	2244	1812	1812	916	636	936	2007	2002	455	1	AAAS	4531	4521	2798	2221	2172	1915	1782	5047	4240	932	4052	2002	2850	2859	1618	1404	1388		1388	
5598	5327	10042	7350	6931	Г	T	П	1	Т		5621	Т	Т	9540	9640	6667	7328	7281	7032	6667	10147	9365	6079	9779	2 3	20 20 20 20 20 20 20 20 20 20 20 20 20 2	8010	6744	6531	6515		6515	
10729				12119	Γ	Π	RLEOL	Γ	Ţ	12281	10748		14681	14732	14731	11837	12542	12494	12220	11837		14446	11230	14262		13111	13110	11912	11702	11682		11681	
1.2	1.9	1.0	1.3	1.2			Γ	T	Ţ	 	1.8		4.6	1.1	1.1	1.9	1.5	1.0	0.8	2.6	0.9	<u>ω</u>	0.0	2	5	3.0	3.0	3.1	0.8	3.4		3.4	
5.00E-42	5.00E-42	6.00E-42	6.00E-42	5.00E-42	5.00n-42	2.000	7.000	7,000-45	7 00=40	8.00€-42	8.00€-42		1.000.41	2.00€-41	2.00€-41	2.00≣-41	2.00€-41	2.00E-41	2.00E-41	2.00E-41	3.00E-41	3.00E-41	3.005-4	3 000	1 00E A1	4.00E-41	4.00E-41	4.00E-41	4.00E-41			4.00E-41	
BEZ1/813.1		AI284770.1	AW238656.1	AF012012.1			_			AB026898.1	AF003530.1		6678468 NT	AL163267.2	AL163267.2	U43701.1	X89631.1	AJ271366.1	AA331940.1	U43701.1	AB037748.1	AB026898.1	20000	AB030178 1	X92685 1	AJ229041.1	AJ229041.1	AI500406.1	AB008681.1	AI027117.1		4.00E-41 AI027117.1	
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	handlard NCI CGAP 1 i/24 Homo sapiens cDNA clone IMAGE:3175052 3	Alu repetitive element: Alu repetitive element: Alu repetitive element: Alu repetitive element:	contains L1.t1 L1 repetitive element;	xn29f08 x1 NCI CGAP HN10 Homo sapiens cDNA clone IMAGE:2741799 3' similar to	Homo saplens phosphatidylinositol 4-kinase 230 (p/4K230) mRNA, complete cds	Homo sapiens phosphatidylinositol 4-kinase 230 (pl4K230) mRNA, complete cds	Homo saniens chromosome 21 segment HS21C085	Homo saplens glutathione transferase A4 gene, exon 1	Homo saplens glutathlone transferase A4 gene, exon 1	ORCTL4 genes, complete cds)	regions PNA DI EC1 to ORCTI 4 gans region, section 1/2 (DLEC1, ORCTL3,	Homo sapiens homeobox protein CDX4 (CDX4) gene, complete cus and nationly reposit		Homo saplens chromosome 21 segment Hozarovor		Human ribosomal protein L23a mkNA, Cullipiele Cus		Homo sapiens mRNA for purative adaptor protein (Give to Beile)	ES 135818 Emplyo, o week 1 normal september protein (CRR40 nane)	Human ribosomal protein L23a mixtys, comprete vas	Homo sapiens mr.NA for NINA 1327 protein, peruar was	ORCTL4 genes, complete cds)	Homo saniens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3,	Homo sapiens PAD-H19 mRNA for peptidylarginine delminase type II, complete cds	H.saplens DNase I hypersensitive site (HSS-3) enhancer element	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segiment in a	contains OFR.b1 OFR repetitive element :	moscula vi NCI CGAP Bm25 Homo saplens cDNA clone IMAGE:2165958 3' similar to	Ling replace spane for activin recentor type IIB, complete cds	3' similar to TR:000597 CYTOCHROME C-LIKE POLYPEPTIDE: :contains LTR5.b1	LTR5 repeutive element.	ow45e06.s1 Soares_parathyrold_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1649794 3' similar to TR:000597 000597 CYTOCHROME C-LIKE POLYPEPTIDE.; contains LTR5.b1

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3008	3 8	200	2 2	685	50.6	5048	4769	4669	4640	4646	4408	4100	415	2846	3847	2935	2497	1986	1222		1222		1085	1085	1026		717	2375	2361	98	4480	4100		4100	1050	736	736	4884 4884	479	4/0	170
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Γ	13834	Т	T		15226	15225	14974	14880	Γ	Π	T	Т	٦		7	13194	12796	Г	Γ		11515			11374	11321		11010	12678			14094	1	1.1363	14311	11341	11035	11034	2/001			
Γ					1.0	1.0	1.2		Π						2.2	8.9	0.7	9.0	4.4	7.7	4.4		1.1	1.1	1.0		=	0.8	1.4	1.0	5.0		A Ji	1.6	0.9	3.0	3.0	3 =	1.0	3   3	10
	7.00E-43	8 00E-43	8.00E-43	8.00E-43	1.005-4	1.00€-42	1.00E-42	1.00E-42	1.005-42	1.000	200	1.00E-42	1.00€-42	1.00E-42	1.00E-42	1.00€-42	1.00E-42	1.000	200	1 005-42	1,000.42		1.00E-4;	1.00E-4	1.005-42		1.00E-42	2.00€-42	2.00E-42	3.00⋿-42	1.000.1	4 005-40	4 00E-42	4.00E-42	4.00E-42	4.006-42	4.005-42	3.000	2.000	5 005 43	5 00E-42
	AW2464						AB03311						2 AL163280.2	2 AL163267.2	2 7662027	2 4505524 NT	21/44/00/14	77 1060		AF067166.1	AF00/ 100.1		1.00E-42 AJ251818.1	1.00E-42 AJ251818.1	AWZ95809.1		X57147.1	AW250059.1	2.00E-42 AW898344.1	AA486105.1			4506496 NT	X59417.1			4.00E-42 AFOSSOSS	A DOC AS A FORFORE 1	A1544304		5730038 NT
	EST_HUMAN	8923276 NT	76 NT	8923276 NT	4501912 NI	12.21	2	4300700CH	ED NIT	33 NT	Ł	EST_HUMAN	NT	NT	27 NT	24 NT	30.75	NT NT	Z	NT		Z-1	Z	2	ESI_NOMPAY	CCT LIMAN	NT	EST HUMAN		EST HUMAN		S NT	S N	N	2	1	NT.		EST HUMAN	BNT	BINT
	2822251.5prime NIH_MGC_7 Homo sapiens cDNA Gone IMAGE: 2022231.5		13		TOTILO September a custification for the control of		Homo copions a disintegrin and metalloproteinase domain 23 (ADAM23) mRNA	Homo saplens mRNA for KIAA1288 protein, partial cds	Homo saniens ryanodine receptor 3 (RYR3) mRNA	Homo saplens proteasome inhibitor (PI31), mRNA	Homo sapiens proteasome inhibitor (Pi31), mRNA	RC3-ST0197-161099-012-a03 ST0197 Homo sapiens CUNA		Homo saptens chromosome 21 seguiretti nozi osor	Homo sapiens KIAAUZOO gelle product (KIAAUZOO).			Homo sapiens major histocompatibility complex, class II, DM alpha (HLA-DMA) mRNA		nuclear gene encoding mitochandrial protein, complete cds	The soules NADH-inhighten exidereductase AGGG subunit precursor homolog mRNA.	nuclear gene encoding mitochondrial protein, complete cds	Fromo sapiene paruar de gono de comprendiretase AGGG subunit precursor homolog mRNA,	Tollio septets petal Co gene for complement component C9, exon 1	Home sanians partial C9 cene for complement component C9, exon 1	UI-H-BI1-afth-e-04-0-UI.s1 NCI_CGAP_Sub3 Homo saplens cDNA clone IMAGE:2721871 3	Human endogenous renovirus price i (Elixa)	ZOUZZOJODNIH WIT WOOL I WING SERVICE	RC3-NNUU/ CZ/Grobo IIII NGC 7 Homo saniens cDNA clone IMAGE:2819293 3'	to contains THR. 2 THR repetitive element;	ab14e10.s1 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE: 840610 3 Similar	Homo saplens zinc finger protein 177 (ZNF177) mKNA	Homo saplens regulatory factor X, 4 (influences HLA class ii expression) (Nr A7) iii Nr A7	illophicia (NOC) mpNA	H sociens DROS-27 mRNA	Homo sanians rihonuclease III (RN3) mRNA, complete cds	Homo saniens MHC class 1 region	Homo sablens MHC class 1 region	pec1,2-4,F08.r ecnorm Homo sapiens cDNA 5	Homo saplens SET domain and mariner transposase rusion gene (SET WAY) IT NAT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA

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1033	881	3396	3396	3059	1746	3368	329	38	4148	4148	3786	2937	2937	2187	643	872	872	1678	1630	1630	177	4193	3524	1669	1195	714	957	494	137	1320
ı	П	П		8210	8888	8511	5510	5486	9274	9274	8923	8088	8088	7296	5802	6020	6020	6802	6756	6756	5370	9319	8665	6793	6327	5868	7865	5659	5333	6449
11325	П			13309		13618			14354	14353		13196	П	12510		11181			11927	11926		14404	13769	11969		11006	11260	10781		
0.9	1.4	1.5	1.5	5.1	1.1	2.9	0.7	0.9	1.2	1.2	2.3	2.2	2.2	1.2	0.9	2.0	2.0	1.2	1.1	<u>-1</u>	1.5	1.0	1.1	0.5	1.0	3.3	1.7	1.0	0.7	3.7
2.00E-44	2.00€-44	3.00€-44	3.00E-44	3.00E-44	3.00E-44	4.00E-44	5.00E-44	5.00E-44	7.00E-44	7.00E-44	7.00E-44	7.00E-44	7.00E-44	7.00E-44	7.00E-44	8.00E-44	8.00E-44	1.00E-43	1.00E-43	1.00E-43	2.00E-43	3.00E-43	3.00E-43	3.00E-43	3.00E-43	3.00E-43	4.00E-43	5.00E-43	5.00E-43	6.00E-43
4826685	W28189.1	AA683268.1	AA683268.1	AA169851.1	6912477 NT	AL163303.2	AJ289880.1	AJ289880.1	AF231919.1	AF231919.1	7.00E-44 AL163284.2	AF048729.1	AF048729.1	5031886 NT	R06035.1	AI222985.1	AI222985.1	AL163284.2	AF154836.1	AF154836.1	AI190764.1	AA548154.1	S69002.1	X97869.1	AF223391.1	AA083568.1	AF003528.1	AA382780.1	AL163213.2	AA491890.1
5 NT	EST HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	7 NT	NT	NT	NT	T	S <sub>1</sub>	Ŋ	NT	NT	6 NT	EST HUMAN	EST_HUMAN	EST_HUMAN	NT	NT	NT	EST_HUMAN	EST_HUMAN	N <sub>T</sub>	ZT	NT	EST_HUMAN	NT	EST HUMAN	NT.	EST_HUMAN
Homo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 1 (DDX1) mRNA	43c5 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA	ae92b04.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:1020357 3	ae92b04.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:1020367 3	zp18b05.r1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:609777 5'	Homo sapiens karyopherin alpha 6 (importin alpha 7) (KPNA6), mKNA		Homo sapiens KIAA0851 gene (partial), X13 gene and LZTFL1 gene		Homo sapiens chromosome 21 unknown mKNA	Homo sapiens chromosome 21 unknown mRNA	Homo sapiens chromosome 21 segment HS21C084	Homo sapiens minisatellite ms32 repeat region	Homo sapiens minisatellite ms32 repeat region	Homo sapiens LIM domain-containing preferred translocation partner in lipoma (LPP) mRNA	ye89e01.r1 Soares fetal liver spieen 1NFLS Homo sapiens cDNA clone IMAGE:124920 5'	qh23g01.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1840002 3			Homo sapiens Ras-like GTP-binding protein (RAB27A) gene, exons 1b and 2			nk55d06.s1 NCI_CGAP_Pr7 Homo sapiens cDNA clone IMAGE:1017419	AML1-EVI-1=AML1-EVI-1 fusion protein (rearranged translocation) (numan, leuxemic cell lille SKH1, mRNA Mutant, 5938 nt)	H.sapiens gene encoding La autoantigen	ds, alternatively spliced	zn09h09.s1 Stratagene hNT neuron (#937233) Homo sapiens cUNA cione image: 240977 3 similar to TR:G1136285 G1136285 UDP-GALNAC:POLYPEPTIDE N-ACETYLGALACTOSAMINYLTRANSFERASE. [1];	flanking repeat regions	EST96033 Testis I Homo sapiens culva 5' end	Homo saplens chromosome 21 segment HS21C013	ne72d06.s1 NCI_CGAP_Ew1 Homo sapiens cDNA clone IMAGE:909803 similar to gb:L05095 60S RIBOSOMAL PROTEIN L30 (HUMAN);

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-		2246	1127	3173		874	3896		5015	2477	4476	4476	5061	5061	3664	2732				2237	2177		2177	1000	11/8		S d	46	46	1468	3,007	8767	2100	16	5	1290	1189	1189	1033		
Г	6333	46 7352	27 6263	Г	_	4 6022	6 9031		ᆈ	7 7575	6 9596	6 9596	10159	1 10159	8803	7816					7286	$\neg \tau$	7286	2000	Т	┰	5727	5256	5256	9588	350	2000	210	9	647	6419	6321	6321	6173		
	3	52 12559	Γ	Γ		13	1		7 15188	5 12777		Γ	15235		Γ	13021				12556	12498		12497			1	180	10372	10371	14684	13679	12020	1282	3000	1840_	11584	11478	11477	11326		
	0.9	0.7				1:3	5.3		8 7.5						Γ					=	1.3		1.3		20	0.5	0.6	1.2	1.2	1.8	-1-	1,2	1	0.7	0.5	1.0	1.6	1.6	0.9		
	3.00€-45	4.000.4	4.000	0.000	5 00E-45	0.000	6.00m-45	200	8.001-45	0.000	9.005	9.000	1.000	1.005	1.000	1.000				1.005-44		1 005	1.00€-44		1.002-44			1.00E-44	1.00E-44		2.00€-44	2.00€-44			2.00€-44  €	2.00E-##  XF (3000).	2.005	2.005	2.005-44	2005	
	5 AW500307.1	- Ł_			AI523766.1		VI 183000 0				1	1		_		AAA55869 1				AAJBOUSS.	1 000000	AA434554.1	AA434554.1		AL163303.2	AW994803.1	AW853132.1	/65/334 INI	765/334 NI	AW864379.1	D87675.1	5901933 NT	J25303.1	AF070651.1	BE465325.1	A 100000.	E133588 1	5803200 NT	5803200 NT	4826685 NT	
	EST_HUMAN	3	EST HUMAN	4	EST_HUMAN		NI	EST HUMAN		N N	18 NT	91 NT	NT NT	N	NT.	EST HUMAN	Z			1	FST HUMAN	EST_HUMAN	EO! DOWN	TOT LIMAN	NT	EST HUMAN	EST HOWAY	PIN LINAN	N	EST DOMEST		NT	NT	NT	T HUMAN						
		IT II. HE-BNO-akg-d-02-0-UI.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077019 3	601194440F1 NIH MGC 7 Homo sapiens dury duris lives	H. sapiens ART4 gene	SW:PAX1_MOUSE P09084 PAIRED BOX PROTEIN PAX-1.;		Homo saplens chromosome 21 segment HSZ1CUU3	Similar to SW:R13A HUMAN P40429 60S RIBOSOMAL PROTEIN LIST	au83h07.x1 Schneider fetal brain 00004 Homo sapiens CUNA Cidire (WACCES)	Homo sapiens TRK-fused gene (NOTE: non-standard symbol since IMAGE: 2782909 3'	Homo saplens TRK-fused gene (NOTE: notifisational symbol and name) (TFG) mRNA	Homo saplens hypothetical protein rulius a free learning and name (TFG) mRNA	Homo sapiens hypothetical protein FLJ10379 (FLJ10379), mBNA	Homo saplens alpha satellite DNA, MT monomer yee	Homo saplens alpha satellite UNA, MT moromer type		and synaphypingsingsings and some mader seriosed 3'	134 protein, JW 10 protein, Complete cds; and L-type calcium channel a>	Homo sapiens ualisvirus. Com	in the protein factor IGHM enhancer 3, JM11 protein, JM4 protein, JM5 protein,	zt88g11.r1 Soares testis NHI Homo sapieris Crier serie	similar to contains THR t3 THR repetitive element;	zw53d02.r1 Soares_total_fetus_Nb2HF8_9w Homo saplens cDNA clone IWASE.r1 3700	similar to contains THR.13 THR repetitive element;	Homo sapiens chicking 1: 08 Homo sapiens cDNA clone IMAGE:773763 5	INCI-bridge-1 1990 - 1 segment HS21C103	1001 B 100000 1100000 B 100000 B 10000 Sapiens cONA	BC1-CT0249-030300-026-h12 CT0249 Homo sapiens cDNA		Lomo sanlens Misshapen/NIK-related kinase (MINK), mRNA	DNA SNOOTE-120500-003-a04 SN0016 Homo saplens cDNA	Homo saplens aceptar in a myloid precursor protein, complete cds	Human (I) NY IV III III III III III III III III III	Homo sapiers assect the subunit, complete cds	SW:OXYB_HUMAN PZZOSY OX13 IENGE Singer protein 4 mRNA, complete cds	hw14g06.x1 NCL_CGAP_Lu24 Homo sapiens CONA CONG III.	Homo sapiene RAB36 (RAB36) mRNA, CAIIDEE CONA Chone IMAGE:3182938 3' similar to	Homo sapiens transmembrane transcring proon ( )	Homo sapiens transmembrane transcring plocent (11111 - 1711) mRNA	Homo sapiens DEAD/H (Asp-Giu-Ala-Asp/nis) DA PS/FFE	mRNA

												19	C	)									<u> </u>	-τ		_				
4666	4294	4320	4320	2710	1676		1676		625	197	2726	2726	4701	4478	2392	2392	4378	3447	3266	3065	1157	484	4 23	118	3509	2996	2454	4682	4682	3997
6 9778	9418		П		6800		6800		5784	5391	7810	7810		9598	7492	7492	9500	1	1	8216	$\neg$		_	5571	8650	8148	7553	9794	9794	8434
14875	14508	14532		12996	11979		11978				13016	13015			12698	12697	1450/	13703	13519	13316	11447	10759			13760	13248		14897	14896	
11.1	0.8	1.1	1.1	1.3	1.3		1.3		0.5	2.2	2.0	2.0	1.0	6.5	3.2	3.2	:		8.2	6.8	0.6	0.5	0.8	0.9	0.8	0.9	0.8	1:1	1:1	1.2
3.00E-46	3.00E-46	4.00E-46	4.00E-46	4.00E-46	4.00€-46		4.00€-46		4.00E-46	5.00E-46	6.00E-46	6.00E-46	7.00E-46	7.00€-46	8.00E-46	8.00E-46	1.000	1.000-45	1.005-45	1.00E-45	1.00E-45	1.00E-45	1.00E-45	1.00E-45	L	2.00€-45	2.00€-45	1_	1	3.00€-45
Z73660.1	4506376 NT	AB014522.1	AB014522.1	M18048.1			AW770544.1		AA601143.1	AL163210.2	AI884381.1	AI884381.1	BE064386.1			Al433261.1	Or cooks.	BE306633 1	Y16641.1 NI	U32169.1	7657290 NT	4506412 NT	BE389855.1	BE389855.1	BE004686.1	AJ243213.1	AL163218.2	BE297384.1	BE297384.1	T71480.1
NT	76 NT	N.T	NT	Z	EST_HUMAN		EST HUMAN		EST_HUMAN	Z	EST_HUMAN	EST_HUMAN	EST HUMAN	ES HUMAN	EST HUMAN	EST HUMAN		EST HUMAN	N N	Z	ONT	2 NT	EST HUMAN		EST_HUMAN	Z	N	EST HUMAN	`ati	EST_HUMAN
	Homo sapiens mitogen-activated protein kinase kinase kinase kinase 3 (MAPANS), ITINNA Homo sapiens mitogen-activated protein kinase kinase kinase kinase 3 (MAPANS), ITINNA Homo sapiens mitogen-activated protein kinase kinase kinase kinase 3 (MAPANS), ITINNA HOMO sapiens ig lambda light chain variable region gene (7c. 11.2) germline; ig-Light-Lambda;	Homo sapiens mixiva for Nixavozz protein, parties was	Homo sapiens manya for Niewyocz protein, partial cas	Human endogenous regovings of Activity	element;	pb:X14008_ma1 LYSOZYME C PRECURSOR (HUMAN);contains element MER37 repetitive	element;	gb:X14008_ma1 LYSOZYME C PRECURSOR (HUMAN);contains element MER37 repetitive	gb: X53741 ma1 Figure 1-01 Long raping CPNA clone IMAGE-300R836 3' similar to	Homo Sapiens Circuitosome 2: Segment 192: Core IMAGE:1104520 3' similar to	contains MER19.12 MER19 repetitive element;	contains MER19.22 MER19 republive element:	RC4-B10310-110300-013-110-010310-11010-010310-110-010310-110-010310-110-010310-110-010310-110-010310-110-010310-01000-01	OUT AT A 14000 OF 140 BT0340 Home spring CDNA	gb.300314 NO. TOUR LINE ETA-1 CHAIN (HUMAN);  GRANTTONSE A NILL MGC 20 Homo seriens cDNA done IMAGE:3618119 5'	gb:J00314 ma2 TUBULIN BETA-1 CHAIN (HUMAN);	ti32f08.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2132199 3' similar to	601289116F1 NIH MGC 8 Homo sapiens cDNA clone IMAGE:3619803 5	Homo sapiens chromosome 21 open reading frame 1 (C21orf4), mRNA	Pottier proventing mRNA for hnRNP protein, partial	Homo sapiens Langemans cell specific crypte form (English Complete cds	Homo sapiens RAPTA, member of RAS discipled and the last in the la	601284360F1 NIH MGC 44 HOMO Sapiells CONN Golie HANGE SCORES	601284360F1 NIH MGC 44 HOURO Sapising CONA Science IMAGE: 3808183 5		Homo sapiens parual 3-H14 leceptar Bellio, excita a to 3	Homo sapiens critorioscille 2 i seguinalit 102 100 10	6011/6009F1 NIT MGC / Figure 31 segment HS21C018	6011/8009F1 NIT NIGC 1/ Homo sapishes CINA clone IMAGE:3533091 5	yd35f07.rl Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:110245 5'

	121	AL 100ZU3.Z	2.00E-4/	0.7	11254	6098	952	_
Homo saplens chromosome 21 segment HS21C009	TI	1 463300 3	2.005-47	1.5	Γ	5338	142	_
Homo saplens myosin phosphatase, target subunit 2 (MYPT2), mRNA		4505318	2000	اَدُ		9390	4265	_
Human T-cell receptor active alpha-chain mRNA from JM cell line, cultiplete cus	TN	M12959.1	3 00E-47		27.73	326	500	_
Homo sapiens nuclear dual-specificity prospinatase (Ser I) linves, paradictory	NT	U93181.1	3.00€-47	5.0		3 3	3000	_
similar to metallopanstimulin 1	EST_HUMAN	AA304095.1	3.00€-47	5 -	13489	8383	3225	
EST16865 Aorta endothelial cells. TNF alpha-treated Homo saplens cDNA 5' end similar to	N	ABUU/899.1	3.00€-47	0.5	12302	7099	1984	_
Homo sapiens KIAA0439 mRNA, partial ods	2	AL163284.2		3.0	11235	6077	930	
IMAGE:277327 3	EST_HUMAN	N57483.1	3.00E-47 N57483.1	1.8	11103	5952	801	
yy54b04.s1 Soares_multiple_scierosis_2NDHMSF nonto sapretis control control			1					,
601278193F1 NIT MGC 20 notice sapients control spirit in a control	EST HUMAN	BE385662.1	3.00E-47	0.6		7882	171	_
Homo sapiens E1A binding protein pavo (Enavo) Illiano (MAGE 3618934 5'	N <sub>1</sub>	57556		1.2	11672	85	1379	_
Homo sapiens chromosome 21 segment 1921 (SEPANA) mBNIA	N.	AL163246.2	6.00E-47	=	12798	7598	2501	Т
Homo sapiens natozop promin (natozop) minor	S	7705390 NT	6.00E-47	2.0	10983	5848	693	
Homo sapiens 959 kb contig between AML1 and CBK1 on Circumsonia & 14-4, 5-8, 1004 600.	N	AJ229043.1	8.00E-47	1.7	13244	8141	2989	
(PPPZNoc) IIINNA	NT	5453955 NT	8.00€-47	0.6	12971	7771	2684	
Homo sapiens protein phosphalase 2, leguiawy surum 2 (2007) chambar and the control of the contr	ĺ					_		Т
Homo sapiens number general property and the Research of the R	NT	Y18536.1	8.00E-47	5.1	12072	88 97	1786	Т
Homo sapiens FLA-C gene, exch. 5, individual 19323	NT N	Y18536.1		5.1	12071	68 7	1766	Т
TR:075703 075703 HYPOTHETICAL 12.4 KU PROTEIN:	EST_HUMAN	AW770928.1		2.6	15044	9955	4848	_
higge04.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3009534 3 Similar to				į	1	1080	748	Т
Homo sapiens Xq pseudoautosomal region; segment 1/2	NT.		9.00E-47	אַ אַ		900	11.6	Т
	NT		1.00€-46	2.6			277	Т
gb:X76717 H.saplens MT-1I mRNA. (HUMAN);	EST_HUMAN	AA631912.1	1.00E-46	2.8	13468	835 <u>0</u>	331	
5279502 61 NCI CCAP PO Homo sapiens cDNA clone IMAGE:1132395 similar to	EST DOMENT	H9/330.1	1.00E-46	0.9	12660	7453	2351	
ESTABANGS WATM1 Homo saplens cDNA done 48b095	EST LINAN	9		17	12555	7343	2236	
EST300625 MAGE resequences, MAGP Homo sapiens cDNA	NAMI IL		┸		70011	6343	1213	Г
Homo sapiens cell division cycle 10 (homologous to CDC10 of S. cerevisiae) (CDC10) mRNA	=	4502694 NT	1 005.48	<u>.</u>	5			<u> </u>
SW:RSP1_MOUSE Q01730 RSP-1 PROTEIN.;	EST_HUMAN	AA399286.1	2.00E-46	1.2	15087	10006		
Rattus norvegicus polassium diamins (vigo)	NT	AF016191.1	2.00€-46 /	1.0	14412	9325	4199	П
ribosomal protein (L4L) and FTP3 (FTP3) genes, complete cds	NT		2.00∈-46	0.9	11917	6749	1623	
3' 3' 3' A particular Barton's hynosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like	EST HUMAN	AA678246.1	2.00€-46	1.3		6669	1542	
zi27a11.s1 Soares_fetal_liver_spieen_1NFLS_S1 Homo sapiens cunA cione invade. 33 1930				!	1	2909	018	1
contains THR.b2 THR repetitive element;	EST_HUMAN	AA468646.1	2.00F-46	<b>3</b> 0	1	5060	3	
VLambda	NT	Z73660.1	3.00E-46 Z	=	14876	9778	4666	
H sapiens lg lambda light chain variable region gene (7c; 11.2) germline; lg-Light-Lambda;								]

																191		_				_	_		_	_	_	_	_			_		_	_
1752	1752	ω	3579	1933	1933	1498		3266	1551	1620	1482	483	482	3096	3096		1231	1230	1595		5002	3749	3749	1383	4707	4406	4287	4287	4251	2620	2185	16 <u>5</u>	1575	1548	952
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12055		9 10359	8 13816	0 12243	Γ	Г	7	П		$\neg$	9 11782	9	<u></u>	13351	10000		Ŭ		11890		٦	13976	П	11674				П		12910	12506	11952	11870		11255
0.9		9 1.2	0.9	3 6.9		1.3		7		1.3	1.1	4.6	1.4	3.6		ω D	1.5	0.5		٦	2.6	0.8		1.6	1.1	2.1		1.8	1.7	0.6	0.8	1.6	1.2	1.2	0.7
L	$\downarrow$	ļ 	3.00E-48	3.00≿-48	3.00⊏-48	4.00€-48		5.00€-48	6.00E-	7.00E-48	7.00E-48	7.00E-48	7.00E-48	8.00E-48		8.00E-48	8.00E-48	8.00≡-48	9.00€-48		1.00E-47	1.00E-47	1.00E-47	1.00E-47	2.00E-47	2.00€-47	2.00€-47	2.00€-47	2.00E-47	2.00E-47	2.00E-47	2.00€-47	2.00E-47	2.00€-47	2.00E-47
2.00E-40   AMS#0390.1	2.00E-48   AA348395.1	48 AA631940.1	48 AW664531.1	48 4000170		AA15745		48 4826891 NT	6.00E-48 AF163441.1	48 5730038 NT		AB03303			1_	18 AW768477.1	18 4501800 NI		AF22339		7 AW813906.1		7 BE280477.1	7 Al333429.1	7 AW965166.1	ł	AA56959		4504866	AA077092.1	7 AF060568.1	L	801,7997	Al969279.1	AL163209.2
101110000	EST HUMAN	EST_HUMAN	EST_HUMAN		NT	EST HUMAN		NT	Z	8 NT	9N	Z	N	EST HUMAN		EST_HUMAN	N	27	N	i	EST HUMAN		EST_HUMAN	EST_HUMAN	EST HUMAN	Z		EST_HUMAN		EST_HUMAN	NT	HUMAN	Z-	ES! HUMAN	
	EST54841 Hippocampus II Homo sapiens cDNA 5' end	fmfc7 Regional genomic DNA specific CDNA library notice september 2007 September	SW:DCRB_HUMAN P56555 DOWN SYNDROME CRITICAL REGION PROTEIN 8.:	hi14b12 x1 NCI CGAP GU1 Homo sapiens cDNA clone IMAGE:2972255 3' similar to	Homo saniens chromosome X open reading frame 6 (CXORF6) mRNA	Imilar to contains L.L.S. L. I apparate cromon.  Homo saplens chromosome X open reading frame 6 (CXORF6) mRNA	zo55c04,61 Stratagene pancreas (#85/ zvo/ romy serving	Homo sapiens priosprioriesterase in, cerimosariens cDNA clone IMAGE:590790 3'	nomo sapiena goigin or illinas, compresso il calmodiulin-dependent (PDE1A) mRNA	Homo sapiens act collian and mainter cols	THO THO SEPTE A CONTROL OF THE PROPERTY OF THE	Thompsonions to isled like kingse 1 (TLK1). MRNA	Lamo socione mBNA for KIAA1209 protein, partial cds	gb:X64707 BREAST BASIC CONSERVED FROTEIN I (FIGURESA).	hk61b03.x1 NCI_CGAP_Lym12 Homo sapiens CDNA Cone IMAGE:300 133 3 SIIIIIIIII W	gb:X64707 BREAST BASIC CONSERVED PROTEIN 1 (HUMAN);	LIGHT SEPTITION OF THE PROPERTY OF THE PROPERT	Long sapiens aminoacylass 1 (ACY1), mRNA	COS, alternatively spiloed  Homo saniene aminoacylase 1 (ACY1), mRNA	Homo sapiens calcium charitet alpria i Caccinii (Caccinii)	RC3-510197-130400-017-102-010197 (DACNA1E) page expos 7-49, and partial	DOS CTOLOS 430400 047-503 ST0197 Homo saplens CDNA	601155321F1 NIM MGC 21 Homo sapiens cDNA clone IMAGE:3138893 5'	qp99h03.x1 Soares_fetal_lung_NbHL19W Homo sapiens colve constructions in colors	ES 13/7239 MANGE 1838 NOTICE TO 11/1/1893	Homo sapieris Nevines activation community of the control of the c	nizagur.st Not Cont Fill tiding sepain hinding protein-related (RAB-R) mRNA	nf23g07.51 NCI CGAP FIT Homo sapiens cDNA clone IMAGE:914652	Homo saplens ring inger protein (Correct UPA) Charles (MAGE: 914652	7B07G09 Chromosome 7 Fetal Brain CDNA Library Homo Sapielis CDNA Como Como Como Como Como Como Como Com	Homo Sapiens promyerocynic reasonnia zina in en promo zapiene zenzane	ilgani (2.3) No. Com Social since finger protein (PLZF) gene, complete cds	TOTAL SEPTIMENT OF THE BOTTOM SEPTIMENT OF THE PROPERTY OF THE	wggoodz.x i ixc. CGA CGA COC. CANADA26), mRNA	Homo sapiens chromosome 21 segment HS21C009  ROSE STANCE CEAP GCB Homo sapiens cDNA clone IMAGE:2479851 3'

5082 10180 15260 1.1 1.005 40 (1110070)	3443 8585 13699 1.2 1.00E-48 M40976 1	1876 6994 12180 16.0 1.00E-46 AL 1633046 2	1274 6404 11564 1.1 1.005-46 014623022	1 005.48	1	1005.48	4431 9552 14040 1.4			
Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) IIINXXX	NT	Z	7	4502166 NT (APP), mRNA		7706534 NT TOTAL September of the contract professe nextractional, Alzheimer disease)	Complete deplatin resistance-associated overexpressed protein (1900)	EST_HUMAN project=TCBA Homo sapiens curva civile 10001 5001 500 100017471 mRNA	TCBAP1D3842 Pediatric pre-B cell acute lymphobiastic legiscitics	retipatio factoria Baylor-HGSC

L	EST TOWN	AA016131.1	3.00€-49	0.7	<u> </u>	777.	3	
					7	Т		
7631005 r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE: 300304 3 SIIIIII 1	N	X68968.1	3.00E-49	٦	1	5711	,	
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1zp29c07.r1 Stratagene neuroepithelium (#937231) nonio saprens contains LTR7.t3		AF 1002 10:2	5.000-48	1.2	10985	5 5850	695	
Homo sapiens chromosome 21 segment HSZ ICU IC	Z	5.00E-49 AL 163210 2	0.000	1.2		5 5850	695	
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	EST HUMAN	AW801668.1	0.000	46	Γ	5384	190	
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ba55g05.x1 NIH_MGC_10 Homo sapiens with Children Bassage LLRep3 protein			7.000	1.0	14759	9669	4550	
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	EST HUMAN	775294 1	7 005 40					_
vc80h07.r1 Soares Infant brain 1NIB Homo saplens cDNA cone IMAGE. 2020 0 Similar		AL163284.2	7.00E-49	1.4	11490	Т	1202	$\overline{}$
Homo sapiens chromosome 21 segment HS21C084	NT	5729990 NT		0.7	10690	5557	389	
Homo sapiens proteasome (prosome, macropain) 26S subunit, A I rase, 4 (FSWC-7) in the control of				c.	1088	5557	) %	Т
TOTAL SEPTEMBER A (DOMOA) MRNA	ONT	5729990 NT	7.005-49	07	10000			_
Homo saplens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA	22	5729990 N I	7.00E-49	0.6	10690	5557	388	
Homo sapiens proteasome (prosome, macropain) 203 subulin, 711 2001	i				1000	) မွ	388	Т
Homo sapieris protessarias processarias proc	NT	5729990 NT	7.00E-49	G	10680	7333		
chosome (prosome macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA	2	5729990 NI	7.00E-49	1.5	10690	5557	134	
Homo sapiens proteasome (prosome, macropain) 26S subunit, Air ass, Tive sime of	1			1	10009	55	122	Т
TOTILO SOPROTA PROPERTO NEL CONTRA PER A (DOMCA) MRNA	N	5729990 NT	7 00E-49	, ,				
continuo professome (prosome, macropaln) 26S subunit, ATPase, 4 (PSMC4) mRNA	12	W109/6.1	1.00E-48 M109/6.1	1.1	15260	10180	5082	Т
Human endogenous retroviral DNA (4-1), complete retroviral seguirem	1	AL163240.2	1.00E-48	1.2	13699	85	3443	Т
Homo sapiens chromosome 21 segment HS21CU40	Z Z	AL 103302.2	1.001-48	16.0	12180	6994	1876	П
Homo sapiens chromosome 21 segment nozio	NT	1 463303 3		1:3	11564	6404	1274	
RNA binding motif protein 6 (RB	NT	5032032 NT	1.001-40	2.4	1102	6004	855	
(APP), mRNA	Z	4502166						
Light captions amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease)	NT	7706534 NT	1.00€-48	0.9	10376	7 7 7 7	<u>5</u>	
Homo sapiens displatin resistance-associated o		BE240000.	2.005-48	1.4	14646	9552	4431	
	EST HUMAN	1040000			_	4		-
Technology Bedigitic pre-B cell acute lymphoblastic leukemia Baylor-Pisso								

Sign Page 110) con profession	Homo sapiens DEAD/TI (ASP-Gid-Nor-Nor-Nor-Nor-Nor-Nor-Nor-Nor-Nor-Nor			-				
tir-Als-Asn/His) hax polypeptide 11 (S.Cerevisiae CHL1-like	The property of the Child				9.0	10410	0000	0
	helicase) (DDX11) mRNA	Z	4758135 NT	1.00E-49	<b>D</b>	1043	F 396	0
ill-Ma-Aspiris) tox polypapada i i (o.ocio:ioco o	Homo sapiens DEAD/H (Asp-Giu-Ma-Asp/His)							
A PARTIE DE PRINCIPALITA 11 /S CARAVISIAA CHI 1-11KB		LO1_1018014		2.00E-48  ALIO7337.1	:	14905	4693 9805	469
ment MER22 repetitive element:	repetitive element:contains element MER22 repetitive element;	ECT LIMAN		2				
SIMO 1470 TANGET TANGET TO THE TOTAL	IMAGE:1682403 3' similar to go:n							
CZGGGZZA CZGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	OZOCOZAN GOGICO SURGOSTINI			_				
loggedop v1 charge senescent fibroblasts NbHSF Homo sapiens CUNA Cione	based on the same same cant fi							100
TOTAL SAPIRITS CAN CHARLE TO COMMITTEE TO CO	HOMO Sapiens CAN Ciliand by Ore	N	2.00E-49 AF026564.1	2.00€-49	0.9	8662 13767	8662	3521
stein (I (RBMII) gene, complete cas	Lama pasione BNA hinding prote	4					0007	010
yxz3quo.ri Sodies Illeidiucyto ziroi in incino septeme	AXX 3000, FI SOMES ITIES TO THE COLOR	EST HOMEN	N26446.1	1 2.00E-49 N26446.1	1.4	3446	2495 8224	340
SNISHM Homo sanians cDNA clone IMAGE:2625/1 5	Commonwell of the polyment of	ł		1,001	6		2004	\$
TI CHO! I COIL COOK	MR3-H1046/-150/200-113-801 1110-407 1101110 september 40111	IEST HUMAN	2 00F-49   BE165980.1	200549	00			2
HTO 187 Capiens CONA	100 LEG 100 A 10	ı		3.000-40 0400000.	1.2	OBOC.	4909 10016	490
A6) gene, exon 40	Human type IV collagen (CUL4Ab) gene, exon 4	Z	1 000371	3 200 40		1		

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10 R01290	7.00E-51	7.00E-5	7.4	13782	3541 8682	3541
-			l	ı		
EO , IOWAN	1.00E-31  AV2/4/20.1	). OFT-0	Ç	13574	8462	3317
FOT HIMAN	4 / 1007/7/7/	4 200				
AUGRACUS INC. CONT. THE CONTROL OF T	_					
COAP KIN11 Homo sapiens CUNA Gone invocations to sufficient						
LOT TOTAL	1.012600AAW 1C-300.1	7.000-0	ī.4	32451 83921 134891	8392	3245
1 EST HIMAN 10VA-NT0028-200400-180-005 NT0026 TOTTO Sapratio CUIV	A LANDSON	3 200 E				

		1					7604
UI-H-BI1-adj-d-02-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2/16851 3	EST HUMAN	AW137826.1	2.00E-51	10	14603	0544	303
	EST HOWAY	AI492415.1	2.00E-51	2.2	13905	8811	3672
107 CO24P KIN11 Home saciens cDNA clone IMAGE:2131732 3	ECT LINANI	700000	2.000-01	0.0	Γ	6/86	1662
LTR7 repetitive element;	EST HUMAN	2 DOE-51   AA233352 1	3 00H-54	>		3	
IMAGE:664880 5' similar to TR:G233226 G233226 RTVL-H PROTEIN. ;contains LTR7.t3							
00120009FT I NITI MOC THE IDEA SECTION COST ON THE SECTION COME	ESI_HUMAN	BE391063.1	2.00E-51	1.1	10957	5829	673
BOOKESONE NITH MICC 44 Holling septems count come IMAGE:3607463 5	EST HUMAN	BE391063.1	2.00E-51	1.1	10956	5829	673
Angelman syndrome (UFE3A) INFONA Angelman syndrome (UFE3A) Angelman synd	4	4507798 NT	2.00E-51	0.6	10671	5540	362
Long contens this title protein loase E3A human papilloma virus E6-associated protein.	N	AL159142.1	3.00E-51	2.1	14438	9356	4232
gb:M26326 KERATIN, TYPE I CYTOSKELETAL 18 (HUMAN);	EST HUMAN	AI587348.1	1	1.4	11449	6294	1159
tr81c09.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2224720 3' similar to				6.6	10001	٩	010
zd76h04.r1 Soares_fetal_heart_NbHH19W Homo saplens cDNA clone IMAGE:346615.5'	EST HUMAN	W79058.1	3.00E-51	<b>D</b>	10800	277	2
zd76h04.r1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:346615 5	EST_HUMAN	W79058.1	3.00E-51	0.6	10891	5771	613
gb:M28326 KERATIN, TYPE I CYTOSKELETAL 18 (HUMAN);	EST_HUMAN	AI587348.1	3.00E-51	0.9	10458	5326	130
Homo sapiens mixix for next it is proven, person was image: 2224720 3' similar to	Z	AB037832.1	5.00E-51	2.3	15175	10107	<b>5002</b>
Human Ku (970/980) subunit mikiwa, compiete kus	NT		_	1.1	14099	899	3863
Human Ku (p70/p80) subunit mikiya, compisis cus	NT	M30938.1		1.1	14098	8999	388
Homo sapiens mRNA for nucleoporin 133	NT	AJ007558.1		4.2	12843	48	2548
Homo sapiens 26S proteasome-associated paul libiliology (City)	NT	5031880 NT	5.00E-51	0.8	11886	6716	1590
Novel human gene mapping to chomosome A	NT	AL133204.1		1.4	11277	7904	975
Homo saplens T-cell lymphoma invasion and melasiasis i (IIAWI) IIIAWA	NT	4507500 NT	5.00E-51	1.5	11089	5937	786
Homo sapiens chromosome 21 segment HSZ1CUU3	NT	AL163203.2	_	3.7	11075	5926	772
(KIAA0929), mRNA	NT	7657266 NT	6.00E-51	12.9	13682	8570	3428
(KIAA0929), mRNA	NT	7657266 NT	6.00E-51	1.9	12246	7053	1936
UI-H-BW0-aip-b-05-0-UI.s1 NCI_CGAP_Sub6 Homo saplens cDNA clone IMAGE:2/25617 3	EST_HUMAN	AW295603.1	7.00E-51	2.4	14459	9379	4254
DKFZp434B2229_r1 434 (synonym: htes3) Homo saplens CUNA cione UNFZp434B2229_r1 434 (synonym: htes3) Homo saplens CUNA cione UNFZp434B2229_r1 434 (synonym: htes3) Homo saplens CUNA cione UNFZp434B2229_r1 434 (synonym: htes3)	EST_HUMAN	AL079628.1	7.00E-51	1.3	14290	9203	4076
	EST_HUMAN	AL079628.1	7.00E-51	1.3	14289	9203	4076
	N	7662109	7.00E-51	7.4	13782	8682	3541
xn34a03.x1 NCI_CGAP_No11 nonio sapielis Colo, colo in Colo TR: Q8Z340 Q8Z340 ATYPICAL PKC SPECIFIC BINDING PROTEIN.;	T HUMAN		7.00E-51	0.8	13574	8462	3317
QV4-NT0028-200400-180-d05 NT0028 Homo sapiens CUNA	EST_HUMAN	7.00E-51 AW889218.1	7.00E-51	1.4	13499	8392	3245

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(Linno sprians book) protein (HOOK1), MKNA		7705444	2000			ı	
Homo sapiens chromosome 21 segment HS21CU85	Z,	AL163285.2	l	0.7	10367	$\neg$	43
Homo sapiens chromosome 21 segment HS21CU85	Z	AL163285.2	1	0.7	10366		43
Homo sapiens heterogeneous nuclear noonucleoprotein C (C i/C2) (TilVKr C) IIINKR	3141	4758543 NT	5.00E-53	2.2	14222		4009
Homo sapiens predicted osteoblast protein (GS3/86), mkNA	3NT	7661713 NT	9.00E-53	0.9	15143	_	4966
Homo sapiens core binding factor alpha1 subunit (CBrA1) gene, exon 3	NT NT	AF001446.1	9.00E-53	1.0	14507	1	4293
Homo sapiens protein kinase, cAMP-dependent, regulatory, type II, beta (PRKAR2B) mRNA	TN	4506064 NT	9.00E-53	1.0	13952	8860	3723
pol=reverse transcriptase nomotog (retroviral element) (numeri, endogenous reuoviral element RTVL-Hp1, Genomic, 660 nt)	Z	S61070.1	1.00E-52	1.4	13273	8173	3021
Homo sapiens aryisulfatase D (AKSD), transcript variant 1, mixix	NT	4502238 NT	1.00E-52	1.2		7586	2489
Homo sapiens glutamate-ammonia ligase (glutamine synthase) (GLUL) mRNA	NT	4504026 NT	1.00E-52	3.0	11643		1349
	EST_HUMAN	AA634445.1	1.00E-52	1.4	10808	5886	522
	EST_HUMAN	BE207575.1	2.00E-52	0.6	12758	7549	2450
	N.	M10976.1	2.00E-52	1.4	10832	5713	550
Human endogenous retroviral DNA (4-1), complete retroviral segment	N <sub>T</sub>	M10976.1	2.00E-52	1.4	10831	5713	550
TR:E239140 E239140 SPALT PROTEIN	EST_HUMAN	AA601246.1	2.00E-52	0.6	10776	5652	487
HSAAABJOK S, Human foetal Adrenals	EST_HUMAN	Z20083.1	3.00E-52	1.5	10853	5737	577
Homo sapiens T-cell lymphoma invasion	1	4507500 NT	4.00E-52	0.8	14086	8986	3850
Homo sapiens dystrophin (DMD) gene, deletion breakpoints 1-3 in intron 5	NT	AF047677.1		20.5		7791	2706
Homo sapiens nucleoporin 155kD (NUP155) mRNA	NT	4758843		8.6	12048	6870	1748
Homo sapiens SH3-containing protein SH3GLB1 mRNA, complete cds	TN	AF257318.1		0.9	11934	6765	1639
H.sapiens flow-sorted chromosome 6 Hindill fragment, SC6pA18H7	NT	Z78898.1	5.00E-52	2.1	14553	9463	4340
	EST_HUMAN	AW009208.1	5.00E-52	0.6	11050	5903	751
	EST_HUMAN	AW009208.1	5.00E-52	0.6	11049	5903	751
and \$171 gene, partial cds	NT T	AF109907.1	6.00E-52	0.8	11968	6792	1668
QV3-B10537-271299-049-007 B10537 F	EST_HUMAN	6.00E-52 BE072409.1	6.00E-52	0.9		6304	1170
	N <sub>1</sub>	X84900.1	8.00E-52 X84900.1	1.3	11781	6608	1481
	EST_HUMAN	AA720574.1	8.00E-52	2.5	10471	5342	146
Homo sapiens small inducible cytokine subfamily A (Cys-Cys), member 15 (SCYA15) mRNA	NT	4759071 NT	1.00E-51	1.0	14522	9432	4309
Homo saplens small inducible cytokine subfamily A (Cys-Cys), member 15 (SCYA15) mRNA	NT	4759071 NT	1.00E-51	1.0	14521	9432	4309
Homo sapiens eukaryotic translation initiation factor 4A, isoform 1 (EIF4A1) mRNA	NT	4503528 NT	1.00E-51	1.5	10437	5312	<u>6</u>

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3923	3246	1833	1833	22	2158	1789	379	5030	5030	4629	4629	1794	8	5152	5152	3364	1429	5091	5091	4390	3970	3207	2694	4697		2490	2279	450	4833	4486	3670		2625
9057			6952		7267	6909		9743	9743		-1	T	_		$\overline{}$	8507	6556	10189		9512		8355	7781	//81		7587	7385	5616	9941	9606	8809	;	7715
	13500	12138	12137	10334	12477		10718	14840	14839	14840	14839	12100	10520	15320	15319	13615	11732	15268	15267	14600	14185	13465	12979	0/871	12076		12592		15030	14699	13903		12916
2.4	0.8	0.9	0.9	0.5	1.7	0.6	1.3	=	==	1.3	1.3	1.3		0.8	0.8	1.0	0.9	Ξ	1:1	=	2.1	1.2	6.9	0.0	8 0	3.8	1.1	1.5	0.9	1.2	1.3		0.9
6.00E-54	6.00E-54	6.00E-54	6.00E-54	6.00E-54	7.00E-54	7.00E-54	7.00E-54	8.00E-54	8.00m-54	8.00E-54	8.00E-54	8.00E-54	8.00€-54	9.00E-54	9.00E-54	1.00E-53	1.00E-53	2.00E-53	2.00E-53	2.00E-53	2.00E-53	2.00E-53	2.00E-53	1001	2 00E-53	2.00E-53	2.00E-53	2.00E-53	3.00€-53	3.00E-53			3.00E-53
4502872 N1				AB00361		Y16645.1		430/040 NI			4507848 NT		BE38678	4507500 NT		AB02689	AJ2/1/36.1				M618/3.	AF083822.1	4757915 NI		4757915 NT	4502316 NT	U78027.1	AA366556.1	BE069344.1	AW803563.1	AW050836.1		AB026898.1
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element L1 repetitive element:	EST_HUMAN	AA655008.1	2.00E-54	0.6	11822	6656	1529	
1779-no -1 NCI CGAP PG Homo sapiens cDNA done IMAGE:1204600 similar to contains	I	4307 10# INI	2.00E-54	0.7	11637	6470	1342	
Homo sapiens nuclear antique Sp100 (SP100) mRNA	27	1507160 NI	2.00E-54	2.1	10906	5785	626	П
Long espiane biller cell lertin-like receptor subfamily G. member 1 (KLRG1), mRNA	EO HOMAN	AI908/5/.1		0.9		7676	2583	П
DKFZp434E0731_r1 434 (synonym: htes3) Homo saplens cDNA clone DKFZp434E0731 3	EST_HUMAN	AL110383.1		0.9	12819	7618	2522	
EST 1853/1 Colon cardinoma (nucl) call line round september control of the	EST_HUMAN	AA313487.1	3.00E-54	1.7	10420	5294	8	$\exists$
	EST_HUMAN	A1935086.1	4.00E-54	1.2		8317	3168	П
Human mkNA for NAADUT / gene, pariens contage cone IMAGE: 2329269 3' similar	NT	D38521.1	4.00E-54	1.2	12069	6885	1784	$\exists$
Human mRNA for KIAA0077 page partial cus	NT	D38521.1		1.2	12068	6885	1764	Т
phosphate dehydrogenase	EST_HUMAN	AA306764.1	4.00E-54	14.0	11244	6087	9 <u>2</u>	
EST177696 Jurkat T-cells VI Homo sapiens cDNA 5' end similar to glyceraldenyde-3-					$\downarrow$	١	į	T
		AF110103.1	4.00E-54 AF110103.1	36.5	1000	2210	4017	T
ZINC FINGER PROTEIN 84 (ZINC FINGER PROTEIN HPF2)	/ISSPROT		5 00E-54		13/35	3 6	4830	Τ
							1	T
H sapiens shc pseudogene, p66 isoform	NT	Y09846.1	6.00E-54	17		201	1,46,4	7

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		VD001 1001	1.005-33	1.0	14925	9833	4721
Homo sapiens DSCR5b mRNA, complete cds	Z Z		1.000	Γ	Г		4721
Homo sapiens DSCR5b mRNA, complete cds	Z	AD037463 1	1.000		Γ	9323	4197
Homo sapiens chromosome 21 segment HS21C010	Z	AI 163210 2	1.000	Ī	Π	9042	3907
Homo sapiens chromosome 21 segment HSZ1CV07	NT	AL 163267.2	100F-55	2 . 7 i	Τ	200	3302
43c5 Human retina CUNA famonily printed appropriate retinations of the second s	EST_HUMAN	W28189.1	1.00E-55	3	1	200	2363
WP:Y47H9C.2 CE20263 :	EST_HUMAN	AW027307.1	1.00⊑-55	1.6	12958	7757	0290
WP:Y47H9C.2 CE20263; WP:Y47H9C.2 CE20263; WP:Y47H9C.2 CE20263; WP:Y47H9C.2 CE20263;	EST_HUMAN	AW027307.1	1.00E-55	1.6	12957	7757	2670
wt73a10.x1 Soares_thymus_NHFTh Homo sapiens cDNA clone IMAGE:2513082 3 Similar to			1.000	-	12003	7001	2568
	Z	L54057.1	1 DOF-55		12004	è	7007
Homo saplens mRNA for KIAA0406 protein, paruai cus	NT	1.00E-55 AB007866.2	1,000.55	17	13804	760	2007
	NT	1.00E-55 AB007866.2	1.00E-55	1.7	12803	7803	3507
Homo sapiens rucky of the general partial code	NT	AJ278305.1	1.00E-55	12.0	12770	758	2470
TOURIO SAPIRIES INSUS SPECIALIS CONTROL CONTRO	NI	AF000990.1	1.00E-55	1.0	12603	7873	2290
Turno continue tactis-specific Testis Transcript Y 1 (TTY1) mRNA, partial cds	Z	58031/4 NI		0.8		7383	2277
Control of the Care of the Car	ESI HUMAN	BE277861.1		0.9	12213	7024	1907
		1.00E-55 BE277861.1	1.00E-55	0.9	12212	7024	1907
FONTASEL NIH MGC 20 Homo sapiens cDNA clone IMAGE:2967027 5		AB020710.1	1.00E-55	1.2	11420	6268	1132
Longo eaniane mRNA for KIAA0903 protein, partial cds	EO LOWAN		1.00E-55	1.4		5734	574
BC BT001-200199-072 BT091 Homo sapiens cDNA	N-			<u>-</u>	10501	5376	182
Chyclolagus culticulus New Zodaliu milw civilguori	1						
Homo sapiens mannose or prospriese respect (alpha (Rabefla2) mRNA.	Z	4505060 NT	1.00E-55	0.5	10423	5297	91
MR1-BILMUS-Upusus-Binhosphafe recentor (callon dependent) (M6PR) mRNA	EST HUMAN	BE070016.1	2.00E-55	2.9	13397	829 90	3141
IMRT-BIU400-00000-001-004 BT0405 Homo sanians CDNA	EST_HUMAN	BE070016.1		2.9	13396	8290	3141
Angelman syndrome) (UBE3A) mRNA	4	07798		0.8	13188	8079	2928
Homo saniens ubloultin protein ligase E3A (human papilloma virus E6-associated protein,	12	1N 4848107	2,00E-55	0.8	12121	6932	1813
Long espisies putative protein O-mannosyltransferase (POMT2), mRNA	2	7019494 NI	2.00E-55	0.8	12120	6932	1813
Domo caplese putative protein O-mannosyttransferase (POMT2), mRNA	N	4507296	2.00E-55	1.1	10915	5792	633
Human endogenous recoviral DNA (++1), complete the second of the second	NT	M10976.1		0.9		5702	539
Human endogenous reported price (Cryst)	NT	X57147.1		0.8	10682	55.6	373
Homo sapiens chromosome 21 seginent noziro ivo	NT	AL163300.2		1.4	13496		3242
Homo sapiens Ag pseudoautosomai región, sognitario	NT N	AJ271735.1		1.0		Z.	2545
	1	4507794 NT	4.00E-55	1.3	12578	38	2282
	3	4503314 NT	4.00E-55	2.8	12357	7152	2039
	YT.	4503314 NT	4.00E-55	2.8	12356	7152	2039
Homo sapiens proteasome (prosonne, maxuyem) (pokf) (DGKG) mRNA	4	4506180 NT	4.00E-55	0.6	12286	7094	1979
2 (PSMA2) mRNA	2	4506180 N	4.00E-55	0.6	12295	7094	1979
Homo saplens proteasome (prosome, macropain) subunit, alpha type, 2 (PSMAZ) mRNA	1					35	324
Homo sapiens predicted osteoplast protein (Goodew), minutes	17	7661713 NT	4.00E-55	0.7	11726	3	1423
ANDA SOSTON							

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1774	866	294	13	4109	4109	609	4963	3622	3622	28	2959	2334	2334	716	716	513	4470	4327	3761	3086	3086	2103	1318	3138	2781	2676	2676	25	25	1666	4261	2703	5081
6895	6014	5480	5221	9235	9235	5767	10066	8761	8761		8110	$\Box$		7897	7897	5677	9590	9450		8237		П	6447	8287	5679	7763	7763	5234	5234	0629	9386	7789	10179
12083		10611	10322	14319	14318		15138	13854	13853		13216	12646	12845	11009	11008		14686	14538		13337	13336	12424	11613	13394	10800	12964	12963	10338	10337	11966	14470	12989	15259
0.6		1.0		1.2	1.2	0.7	1.5	1.8	1.8	1.4	0.9	1.0	1.0	1.2	1.2	1.0	2.1	4.1	1.4	1.6	1.6	2.7	9.9	1.1	1.0	1.5	1.5	2.1	2.1	0.8	1.1	1.9	1.2
8.00E-57	8.00E-57	8.00E-57	8.00E-57	9.00E-57	9.00E-57	9.00E-57	1.00E-56	1.00E-56	1.00E-56	1.00E-56	2.00E-56	2.00E-56	2.00E-56	2.00E-56	2.00E-56	2.00E-56	3.00E-56	3.00E-56	3.00E-56	3.00E-56	3.00E-56	3.00E-56	3.00E-56	4.00E-56	4.00E-56	4.00E-56	4.00E-56	4.00E-56	4.00E-56	5.00E-56	6.00E-56	7.00E-56	1.00E-55
AA496109.1	•	AW816405.1	_			AW880885.1		AW589833.1		1	AB037835.1	4585863 NT	4585863 NT	BE064386.1	BE064386.1	AA199818.1	5902085 NT	AL163268.2			AA325826.1	6912697	8924029 NT	AW293688.1	AF003528.1	4507728 NT	4507728 NT	AF141349.1	AF141349.1		R96413.1	H19934.1	8923125 NT
ES! HUMAN	EST_HUMAN	ESI_HUMAN	9NT	9NT	9 NT	EST_HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	Z	NT	3 NT	3 NT	EST HUMAN	EST HUMAN	EST_HUMAN	5 NT	2	Z	ILO HOWAN	EST HUMAN	N	TNE	EST_HUMAN	NT	BNT	INT	NT	3	EST_HUMAN	EST_HUMAN	EST_HUMAN	T
ZV51012.71 Soares tesus INTI TICITIO Sapieria COIVA Gold INVACE. CO. 10. 0	gb:U05875 INTERFERON-GAMMA RECEPTOR BETA CHAIN PRECURSOR (HUMAN):	QV4-S10234-161189-037-103 310234 noting september Cover	Homo sapiens hypometical protein Fuzuoz 1 (Fuzuoz 1), ilimiyo	Homo sapiens consa (EVIA4) mknA	Homo sapiens EpnA4 (EPHA4) mRNA	QV0-O10033-070300-152-nus O1003 nomo sapiens conx	QV-BT077-130199-079 B1077 Homo sapiens CDNA	ng23c11.x1 NCI CGAP GCo nomo sapiens cuiva done invage2910-32 3	ng23c11.x1 NCI CGAP GC6 Homo sapiens conta done image: 294c452 3	Macaca fascicularis protein tyrosine prospinarase (FKL-1) mixtxx, complete cus	Homo sapiens mRNA for KIAA1414 protein, partial cos	Homo sapiens phosphodiesterase 6A, cGMP-specific, rod, alpha (FUEGA), mixiva	Homo sapiens phosphodiesterase 6A, CGMP-specinc, rod, alpha (FUEON), IIINIAN	RC4-B10310-110300-013-110 B10310 Homo Sapiens CONA	RC4-BT0310-110300-015-110 B10310 Homo sapiens CUNA	IMAGE:645206 3'	Homo sapiens superkiller viralicidic activity 2 (S. cerevisiae nomolog)-like (SKIVZL), ITIKNA		Homo sapiens MITC Class I region	EST 7000A Cataballati in Linuing ashigns course and	EST28889 Cerebellum II Homo saplens CDNA 5' and	Homo saplens oncogene TC21 (TC21), mRNA	Homo saplens hypothetical protein PRC1304 (PRC1304), mRNA	UI-H-BI2-aho-d-07-0-UI.s1 NCI_CGAP_Sub4 Homo saplens cDNA clone IMAGE:2727588 3'	Homo sapiens X-linked annidrolide ectodermai dyspiasia protein gene (LDD), exon a sind flanking repeat regions	Homo sapiens tubulin, beta polypepude (1000) filining		Homo sapiens bela-tubulin mkNA, complete cus	Homo sapiens beta-tubulin mkNA, complete cus	RC3-BN0053-170200-011-h01 BN0053 nomo sapienis covix	yq37e01.r1 Soares fetal liver spieen 1NFLS Homo sapiens cDNA clone IMAGE:197976 5'	yn62g03.r1 Soares aduit brain Nzbornsbor nurrio sapiens convo conte invoce.	

			-		ı	L
		7.00E-57	0.9	13470	8360	21 <u>2</u>
					1	
7242158 NT Homo sapiens NME/ (NME/), HINNE		7.00E-57	0.9	13469	- 1	3
NI TOTIO SAPIRIS SING COCKETT MONA		7.00E-57	0.7	12886	7684	592
N.		7.00E-57	0.7	12885	7684	592
Homo saniane smo GDS-ASSOCIATED PROTEIN (	200,100	0.000	10	15282	10203	5107
IEST HI IMAN   on87h02.s1 Soares NFL T GBC S1 Homo sapiens CLINA Gold INVISC. 130 1300	2 10074001 1	2000				Š
4758278 NT Homo sapiens Epiton (CC1150) III Was - 5116 Con MACE: 1581030 3		8.00E-57	1.0	13593	8479	3
		8.00E-57	1.0	13592	8479	335
Lucan esplene EnhAA (EPHAA) mRNA						

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2871	2207	3382	3382	2945	638	638	2184	4409	3504	3504	3392	2699	3639	3514	2342	1309	787	3694	3801	3801	3233	3212	3212	2592	2592	5107	3336	3325
8022	П	1	8525	8096	5797	5797	1283	$\sqcap$	8646		7	7785		8655	7444		5938	8833	8838	8938	8381	8360	8360	286	7684	3 3	9 9	0470
13124	П		13631		10922	10921	2003	14618	13756	13755		12985		13762	12651		11090	13925	14033	14032	13488	13470	13469	12886	12885	15282	43503	13505
1.2	6.0	4.2	4.2	2.8	0.9	0.9	=	6.9	0.8	0.8	2.9	1.2	115.9	1.2	1.0	3.9	0.8	1.2	7.7	2.2	6.5	0.9	0.9	0.7	0.7	5		100
6.00E-58	6.00E-58	7.00E-58	7.00E-58	8.00E-58	8.00E-58	8.00E-58	1.00	2.00E-57	2.00E-57	2.00E-57	2.00E-57	2.00E-57	3.00E-57	3.00E-57	3.00E-57	3.00E-57	3.00E-57	4.00E-57	7.00E-07		7.00E-57	7.00E-57	7.00E-57	7.00E-57	_		8 00F-57	8.00E-57
BE242150.1	BE395061.1				AI798376.1	AI798376.1		AL163283.2 AW503208.1	R07702.1	R07702.1	AL163204.2	AA845419.1	AW853864.1	AF232708.1	AA348335.1	AA230279.1	4507798 NT	AB026898.1	2,0120,51	AF012872.1	IN 6/8COR	7242158 NT	7242158 NT	7657592 NI	7657592 NT	AA971001.1	4758279 NT	4758279 NT
EST_HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN			EST_HUMAN		EST HUMAN	EST_HUMAN	EST_HUMAN	3	EST_HUMAN	EST HOMAN	Z	EST HUMAN	EST_HUMAN	NT	Ŋ		NT I	N T	Z	Z,	NT	NT	EST_HUMAN	NT	TN
project=TCAA Homo sapiens cDNA done TCAAP1219	TO A A D1E 1219 Pertiatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC	A Homo senien	7 Homo sapiens		TR:O15475 015475 UNIVAMED HERV-H PROTEIN :	TR:015475 015475 UNNAMED HERV-H PROTEIN :	1734b07 x1 NCI CGAP Ov23 Homo saplens cDNA done IMAGE:2220181 3' similar to	UI-HF-BN0-akt-g-07-0-UI.11 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078348 5	ye98h01.r1 Soares fetal liver spieen 1NFLS Homo sapiens CDNA clone imAGE: 125009 5	ye98h01.r1 Soares fetal liver spieen 1NFLS Homo sapiens cDNA clone IMAGE:123609 3	Homo sapiens chromosome 21 segment 102 1000	ak02b02.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cunA cione invase. 1407.77 3' similar to contains Alu repetitive element; similar to contains Alu repetitive element;	RC3-C1029-110300-021-010-010-01-010-01-010-01-010-01-010-01-01	Homo sapiens cell-line tsA201a chioride ion current inducer protein (Cin) gene, curriptere current	ES 1947 O hippocalipas in tonic suprime services	SW:RS10 HUMAN P46783 40S RIBOSOMAL PROTEIN S10.:			Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3,	Homo saplens phosphatidylinositol 4-kinase 230 (pl4K230) mRNA, complete cds	Homo sapiens phosphatidylinositol 4-kinase 230 (pi4K230) mRNA, complete cds	Homo sapiene Krinnel-like factor 8 (KLF8), mRNA	Homo sapiens NME7 (NME7), MRNA	Homo sapiens smg GDS-ASSOCIATED PROTEIN (SWAT), IIIIN S	Homo sapiens smg GDS-ASSOCIATED PROTEIN (SMAP), ITRIVA	op67h02.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1551939 3		Homo sapiens EphA4 (EPHA4) mRNA

•	•	EST HUMAN	AI807484.1	5.00E-59	6.2	٦	Т	3000	_
	HOITO Sapieta I CAD Cox officiant Processing		4507378	8.00E-59	9.9	12503	_	2182	
	1024010 (.X.) Scales (III) IIII & C		AI141063.1	1.00E-58	4.9	15085	_, i	4895	
		2	M95863.1	1.00E-58	0.9	14838	9741	4627	
	Homo sapiens varisimos proventing enzyme (NEC2) gene, exon 4	N	4507628 NT	1.00E-58	0.8	13892	8798	3659	
			1,0000	1.000.1	1.0	13/48	8634	3493	_
	Homo sapiens chondroltin sulfate proteoglycan 2 (versican) (CSPG2) mRNA	ZI Z	4758081 NT	1.00C-00	150	Π		3493	_
	Homo sapiens chondroith sulfate proteoglycan 2 (versican) (CSPG2) mRNA	27	4758084 NT	1.005-58	1.0	Γ		2771	
	1	1	DE400132.1		2.0		6767	1641	
	1	ECT LIMAN	71230090.1		1:1	Г	6503	1375	
			A FOUNDER I		0.7	Γ.	П	1305	_
	_		AW/057482 1		e.	Γ	Г	1305	_
		EST HUMAN	1 DOE-58 AW957182.1	1 005-58	7	Τ	Т	7607	_
	(NDUFB9), mRNA	Z	6274549	1.00E-58	<u>.</u>	44343	$\neg \neg$		
	Turner Control NATH dehvdronenase (ublquinone) 1 beta subcomplex, 9 (22kD, 822)	2	M65134.1	1.00E-58	0.9	10995		705	_
	$\perp$	ESI_HUMAN	BE208532.1	_	4.1		6397	1268	
			7,100	2.000	c.o	11333	6180	1040	7
		EST HUMAN	AW/881145 1	2000	2.0	11230	Г	925	_
	Homo saplens 5-aminolevulinate synthase 2 (ALAS2) gene, complete cds	NT	AF068624.1	3.00E-58	3 0	11061	Т	1367	_
	Homo sapiens peptide YY (PYY) mRNA	NT	475ROR1	_			<u> </u>	332	Г
		EST_HUMAN	R17879.1	_1	3	11001	80.0	300	1
	Homo sapiens EGF-like repeats and discoloin i-like domains o (EDICA), illinois	NT	5031660		21	13013	9940	2000	7
	Human mRNA, Xq terminal portion	NT	D16470.1		=	13536	8228	3383	Т
	Human bela-prime-adapuit (pAwizz) yeire, savir o	NT	U36251.1	4.00E-58	1.0	12883	7683	2590	Т
	Homo sapiens ubiquitin-conjugating BIR-domain enzyme APOLLON mrkwx, complete was	NT	AF265555.1	4.00E-58	1.0	12829	7627	2531	1
	hemophilia B) (F9) mRNA	NT	4503648 NT	4.00E-58	1.2	11753	6579	1452	
	Homo sapiens coagulation factor IX (plasma thromboplastic component, Christmas disease,			4.00	0.5	11080	823	779	T
	Homo saplens interleukin 10 receptor, beta (IL10RB), MKNA	NT	4504634 NT	4 00E 58		10070	Ş	300	Т
	(oligomych sensitivity conferring protein) (ATP50) mRNA	<b>Z</b>	4502302 NT	4 00E-58		10870	56.17	3	7
	longeovisia No. CGAT Los rights september mitochandral F1 complex. O subunit	EST HUMAN	AA988183.1	5.00E-58 /	3.6	13534	8426	3281	Ŧ
		EST HUMAN		5.00E-58 /	1.0	11465	813	1177	Т
	L	EST HUMAN		5.00E-58 AW797948.1	1.0	11464	810	1177	Т
	CM3-UM0043-240300-127-07 UM0043 Homo	EST_HUMAN		5.00E-58 /	1.5	11465	8310	1176	T
	CM3-UNIUU43-240000-127-007-01100043-Homo	EST HUMAN	L	5.00E-58 /	1.5	11462	810	1176	-1
	L	YI .	)7334	5.00E-58	1.0	10613	5483	297	1
	<u> </u>	EST_HUMAN	BE242150.1	6.00E-58 E	1.2	13125	802 <u>2</u>	2871	
	TCAAP1E1219 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC								1

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0	3030	3 5	1601	1405	4354	1826	2942	2188	2188	78	à	\$080	1007	2 2	705	728	737	2125	2125	1455	20/0	2576		157	4734	4683	3753	3090	3090	2082	3080	1002	120	3,	ا و	4685	4685	776	4559	3338	
Г	5575	T	Т	╗	4 9476	6 6945	1	Г	T	Т	Т	Т	Т	1	Т	7	Т	7235	7235	2000	Т			5353	9845	9795	8891	8241	8241	7194	718	6806	2000	7413	5217	9797	9797	5928	9677	8482	
Γ	T	T	J	2 11703	6 14567	5	3	7 12512		Τ	Т	T	14207	T	T	П	T	12444	12443	1170	Т				14938	14898	13981	13344	13343	12399	12398	11988	11087	10534		14901	14900	11078	14769		
ſ			1.3	1.0	Γ	0.8		T		T	T	T				11.0		1.0	1.0		T	0.9		1.2	Γ			3.7				T	T		2.0	1.2	1.2	0.8	5.9	3.9	
				L	L	L	ļ	$\downarrow$	$\downarrow$		1			1	4			8.0	8.0	-	80	1.0		1.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	300	3.00	3.00	4.00	4.00E-59	4.00	5.00	5.00E-59	
	1.00E-60		2.00E-60	2.00€-60	3.001-60	3.00E-00	1	200		4 00F-80	AL RO	8		_			7.00E-60	8.00E-60	8.00E-60			1.00E-59		1.00E-59 t		3.00E-59	3.00E-59	3.00E-59	3.00E-59		_	3.00E-59	3.00E-59	3.00E-59	3.00E-59 A		E-59	ŧ			_
	BE178586.1	AF231919.1	M24603.1	211694.1	AUZ/1/33.1	1000	EN 10611109	1 750ppp A	4 00E-60 AW503208.1	AW503208.1	5 ONE SO AIRO7917.1	5.00E-60 AI807917.1	4505488 NT	AF077188.1	4504634 NT	AF055066.1	AF055066.1	5174656	5174656		4759159 NT	AA748468.1		BE290411.1	7701741	4/383Z9 NI	4500044	4502014 NI	4502014 N	AF249745.1	AF249745.1	4505860 NT	4505860	7662247	AW965524.1	4506758	4506/36 NI	DBUUUB. 1	X83497.1	AL159142.1	170440 4
	EST HUMAN	N <sub>1</sub>	2		N7	NT	ı		EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	88 NT	N <sub>1</sub>	34 NT	N	NT	56 NT	NT		PINT	EST HUMAN		110000		3 2 7	FINIT	\$ 2 -	2 2	3	N	TNI	NT	NT	EST HUMAN	Z		17	2	27 -	INT.
	PM3-HT0605-270200-001-800 F1 0003 F0110 septime 3		Tulian ou promising of incommand	١	H sanlans 41kDa protein kinase related to rat ERK2	Homo sapiens Xg pseudoautosomai region; segment 1/2	Homo sapiens prohibitin (PHB) mRNA	EST11498 Uterus Homo sapiens cDNA 5' end similar to similar to reutoviros reactor por		ลิ้			Homo sapiens omithine decarpoxyrase 1 (UDC1) mixto			HOMO Sapiens with Class 1. 1880: Set ill 1000) TRNA	Homo sapielis wind class i region	6	(cicket specific induction protein) (RTP) mRNA	Homo sanians differentiation-related gene 1 (nickel-specific induction protein) (RTP) mRNA	Homo saplens small nuclear noonucleopideni oo polypopise (1997)	SEQUENCE:	TR:Q13537 Q13537 MER37 TRANSPOSABLE ELEMENT, COMPLETE CONSENSUS	DESCRIPTION OF THE PROPERTY OF	801178757F1 NIH MGC 17 Homo sapiens cDNA done IMAGE:3531927 5	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPRT), mRNA	Homo saniens Testis-specific XK-related protein on Y (XKRY) mRNA			Homo sepiens Circuitoscino 24-2		Homo sapiens plasminogen activator, ussue (r Chie) invitor	Homo sapiens plasminogen activator, ussue (r Chi a) menu	Homo sapiens nivouco gerie process ( // MRNA	COLOR TO VIA A DESPRISA DE PROPINCI (KIAA DEBO), MRNA	CST277882 MAGE resequences, MAGI Homo sapiens cDNA	Long septions cannoline receptor 3 (RYR3) mRNA	Homo sapiens manodine receptor 3 (RYR3) mRNA	Human mRNA for KIAA0184 gene, partial cds	H sapiens DNA for ZNF80-linked ERV9 long terminal repeat	Novel human gene mapping to chomosome 22

6754 11924 0.8 6.00E-61 AA596033.1 EST_HUMAN 6780 11953 0.6 5.00E-61 AA596033.1 EST_HUMAN 6780 11955 0.8 5.00E-61 AB020632.1 NT 8263 13367 0.8 5.00E-61 AB020632.1 NT 8265 13367 0.8 5.00E-61 AB020632.1 NT 8265 13367 0.8 5.00E-61 AB020632.1 NT 8265 10778 0.5 2.00E-61 W28189.1 EST_HUMAN 6326 11482 1.4 2.00E-61 BE168410.1 EST_HUMAN 6326 11483 1.4 2.00E-61 BE168410.1 EST_HUMAN 6326 11483 1.4 2.00E-61 N53039.1 EST_HUMAN 6326 11483 1.3 2.00E-61 N53039.1 EST_HUMAN 6326 11483 1.3 2.00E-61 N53039.1 EST_HUMAN 5595 0.9 1.00E-61 AL163203.2 NT 5908 11056 1.3 1.00E-61 AL163203.2 NT 6854 1.0 1.0 1.00E-61 AL163203.2 NT 6854 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
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6736 11906 1.0 6.00E-61 AA596033.1 EST_HUMAN 6754 11924 0.8 6.00E-61 AA596033.1 EST_HUMAN 6780 11953 0.6 5.00E-61 AL163279.2 NT 8152 13252 1.9 5.00E-61 AL163279.2 NT 8263 13367 0.8 5.00E-61 AB020632.1 NT 8310 13422 1.9 5.00E-61 AB020632.1 NT 9034 1.7 5.00E-61 AJ229041.1 NT
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ATOM TO SOME ST DESERTION TO TEST HI IMAN
6428 11592 3.5 6.00E-61 AF119860.1 NT
5945 11096 0.6 6.00E-61 BE409310.1 EST HUMAN
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5320 10451 0.9 7.00E-61 7706670 NT
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122 5320 10450 0.9 7.00E-61 7706670 NT Homo sapiens PXR2b protein (PXR2b), mRNA
X57147.1 NT
2635 7724 12928 1.4 8.00E-61 AW006478.1 EST_HUMAN  w005b10.x1 NC _CGAP_Co3 Homo saplens cDNA clone IMAGE:2506555 3
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2739 7823 13027 0.7 1.00E-60 L41825.1 NT Homo sapiens CYP17 gene, 5' end

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	IN 16	3	87 NT	NT	EST_HUMAN	EST_HUMAN		EST HUMAN	EST_HUMAN		FST HUMAN	EST HUMAN		EST_HUMAN		EST HOWEN	ECT HIMAN	NT	NT	NT	EST HUMAN		T	SWISSPROT	EST_HUMAN		Z]	EST HUMAN	EST_HUMAN				EST HUMAN
	Homo saplens neurofibromin 2 (pilateral accusato reconstruir )	Homo sapiens paradi contra receptor serio natiroma) (NF2) mRNA	Homo sapiens release to the second response arons 2 to 5	Habbit flavill-culturilling filotions / Brown	to gb:X57138 ma1 HISTONE HZB.Z (HUMAN); mRNA, complete cds	wf12b08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2350359 3' similar	W12b08x1 Soares_NFL   GBC_3   FIGURE SEPTING TO	EST182043 Jurkat 1-calls v Homo sapiens cDNA clone IMAGE:2350359 3' similar	PRECURSOR (HUMAN):	au71d03.y1 Schneider fetal brain 00004 Homo sapiens CUNA COUR INCOCESSION OF THE PROPERTY OF T		au71d03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5	Similar to 9b:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDON PROPERTY INSOR (HTMAN):	PRECONSON (10:10:10:1)	Similar to 95:M37104 ATP SYNTHASE COUPLING FACTION 6, MIT OCH CHANNEL COUPLING FACTION 6.	au71d03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:270 170	SW:NRDC RAT P47245 NARDILYSIN :	Homo sapiens I Vallocinia 1997.  To the sapiens cDNA clone IMAGE:782344 3' similar to	Homo sapiens Ad psedaceauscomments (RYR3) mRNA	Homo sapiens Ad pseudosuriosomal region; segment 1/2	SW:GG95 HUMAN Q083/9 GULGIIN-50, JULIANIA GULGIIN-50, JULIA GULGIIN-50, JULIANIA GULGIIN-50, JULIANIA GULGIIN-50,	wx51e07.x1 NCI_CGAP_Lu28 Homo sapiens cUNA cione invogratione element :	Human zinc finger protein ZNF131 mRNA, partial cos	(AUTOANTIGEN NOR-90)	SW:POL_MLVRK P31795 POL POLYPROTEIN;	oc66h11.s1 NCI_CGAP_GCB1 Homo sapiens CUNA Golle IMPOET TOTAL	Homo saplens chromosome 21 segment HSZ1CU10	UI-H-BW0-ajt-b-08-0-UI.91 NCI_CGAP_Subo notito saprons	CITITUTE STATE OF THE PROPERTY	11 H BWO 3 L-DARA-UI S1 NCI CGAP Sub6 Homo sapiens cDNA clone IMAGE:2732871 3	Homo sapiens TRAF family member-associated NFKB activator (1744)	Homo sapiens TRAF family member-associated NFRB activator (CTANK) mRNA	QV2-HT0577-140300-077-g06 HT0577 Homo sapiens cDNA

109   12280   1.0   3.00E-82   AB040993.1   NT   Homo aspless mRNA, for KAA4478 protein, partial cds	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene	N	AF111167.2	2.00E-63	1.1	14966	9871	4760
13280   1,0   3,00E-82   AB040909.1   NT   13261   1,0   3,00E-82   AB040909.1   NT   13872   1,9   3,00E-82   X52858.1   NT   11501   0.5   2,00E-82   AE248540.1   NT   11820   2.5   1,00E-62   L78810.1   NT   NT   13138   1.1   1,00E-62   L78810.1   NT   NT   14640   1.3   1,00E-62   AA625207.1   EST_HUMAN   14170   7.4   9,00E-63   AB002348.2   NT   14171   7.4   9,00E-63   AB002348.2   NT   14171   7.4   9,00E-63   AB002348.2   NT   14171   7.4   9,00E-63   AB002348.2   NT   13667   3.8   8,00E-63   AF198349.1   NT   13667   3.8   8,00E-63   AF198349.1   NT   13533   1,0   4,00E-63   AL163278.2   NT   13533   1,0   2,00E-63   AL163278.2   NT   13534   1,3   2,00E-63   AL163278.2   NT   AL163278.2   N	Homo sapiens polycystic kidney disease-associate	NT.	L39891.1	<b>└</b>	1.9	14067	8968	3831
13260   1.0   3.00E-62   AB040909.1   NT     13361   1.0   3.00E-62   AB040909.1   NT     13872   1.9   3.00E-62   AB040909.1   NT     11501   0.5   2.00E-62   AB640909.1   NT     11523   1.2   1.00E-62   AF248540.1   NT     11820   2.5   1.00E-62   AF248540.1   NT     11820   2.5   1.00E-62   AF248540.1   NT     12060   1.0   1.00E-62   AA625207.1   EST_HUMAN     13138   1.1   1.00E-62   AA625207.1   EST_HUMAN     14840   1.3   1.00E-63   AV816405.1   EST_HUMAN     10641   0.7   9.00E-63   AV816405.1   EST_HUMAN     14170   7.4   9.00E-63   AV816405.1   EST_HUMAN     14171   7.4   9.00E-63   AB002348.2   NT     14171   7.4   9.00E-63   AB002348.2   NT     13667   3.8   8.00E-63   AF198349.1   NT     13668   3.8   8.00E-63   AF198349.1   NT     1367   3.4   8.00E-63   AF198349.1   NT     13689   0.6   7.00E-63   AF198349.1   NT     13690   0.6   7.00E-63   AL163268.2   NT     1373   1.0   4.00E-63   AL163278.2   NT     13938   1.3   3.00E-63   AL163278.2   NT     13938   1.3   3.00E-63   AU872137.1   EST_HUMAN     13533   1.0   4.00E-63   AU8954734.1   EST_HUMAN     10504   1.1   2.00E-63   AV9954734.1   EST_HUMAN     10504   1.1   2.00E-63   AV9954734.1   EST_HUMAN     11945   0.9   2.00E-63   AB030388.1   NT     11946   0.9   2.00E-63   AB030388.1   NT     11947   0.9   2.00E-63   AB030388.1   NT     11948   0.9   2.00E-63   AB030388.1   NT     11949   0.9   2.00E-63   AB030388.1   NT     11940   0.9   2.00E-63   AB030388.1   NT     11941   0.9   2.00E-63   AB030388.1   NT	Homo sapiens chromosome 3 subtelomeric region	NT	AF109718.1	I	1.8	13502	8395	3248
13260 1.0 3.00E-62 AB040909.1 NT 13261 1.0 3.00E-62 AB040909.1 NT 13872 1.9 3.00E-62 AB040909.1 NT 11501 0.5 2.00E-62 AL163284.2 NT 11501 0.5 2.00E-62 AL163284.2 NT 11920 2.5 1.00E-62 AA625207.1 EST_HUMAN 12060 1.0 1.00E-62 AA625207.1 EST_HUMAN 13138 1.1 1.00E-62 AL039044.1 EST_HUMAN 13138 1.1 1.00E-62 AL039044.1 EST_HUMAN 13440 0.7 9.00E-63 AB002348.2 NT 14470 7.4 9.00E-63 AB002348.2 NT 14171 7.4 9.00E-63 AB002348.2 NT 14171 7.4 9.00E-63 AB002348.2 NT 13666 3.8 8.00E-63 AF198349.1 NT 13667 3.8 8.00E-63 AF198349.1 NT 13668 3.8 8.00E-63 AF198349.1 NT 13669 3.4 8.00E-63 AF198349.1 NT 13660 3.1 3.00E-63 AL163268.2 NT 13798 0.7 3.00E-63 AB072377.1 EST_HUMAN 13533 1.0 4.00E-63 AL163278.2 NT 13661 3.2 3.00E-63 AB078260.1 NT 13661 3.2 2.00E-63 AB078278.1 NT 13664 1.1 2.00E-63 AB078278.1 NT 13664 0.9 2.00E-63 AB030388.1 NT 13665 0.9 2.00E-63 AB030388.1 NT	Homo sapiens amylold beta (A4) precursor protein ((APP), mRNA	NT	4502166	2.00E-63	1.7	13373	8268	3119
13260 1.0 3.00E-62 AB040909.1 NT 13261 1.0 3.00E-62 AB040909.1 NT 13872 1.9 3.00E-62 AB040909.1 NT 11501 0.5 2.00E-62 X52858.1 NT 11501 0.5 2.00E-62 X52858.1 NT 11820 2.5 1.00E-62 AF248540.1 NT 11820 2.5 1.00E-62 AF248540.1 NT 11820 2.5 1.00E-62 AA625207.1 EST_HUMAN 12060 1.0 1.00E-62 AA625207.1 EST_HUMAN 13138 1.1 1.00E-62 AA625207.1 EST_HUMAN 13138 1.1 1.00E-62 AL039044.1 EST_HUMAN 13640 1.3 1.00E-62 AL039044.1 EST_HUMAN 13640 1.3 1.00E-63 AW816405.1 EST_HUMAN 14470 7.4 9.00E-63 C18159.1 EST_HUMAN 14171 7.4 9.00E-63 AB002348.2 NT 14171 7.4 9.00E-63 AB002348.2 NT 12609 0.6 8.00E-63 AF198349.1 NT 13667 3.8 8.00E-63 AF198349.1 NT 13668 3.8 8.00E-63 AF198349.1 NT 13669 0.6 7.00E-63 AF198349.1 NT 13667 3.8 8.00E-63 AF198349.1 NT 13668 3.8 1.3 3.00E-63 AF198349.1 NT 13669 0.7 3.00E-63 AF198349.1 NT 13669 0.7 3.00E-63 AF198349.1 NT 13661 3.2 3.00E-63 AB018260.1 NT 13694 1.1 2.00E-63 AB018260.1 NT 13694 1.1 2.00E-63 AB018260.1 NT 13694 1.1 2.00E-63 AB05263 NT 13694 1.1 2.00E-63 AB05263 NT 13694 1.1 2.00E-63 NT 13694 0.9 2.00E-63 AB03388.1 NT 13694 0.9 2.00E-63 AB03388.1 NT 13844 0.9 2.00E-63 AB03388.1 NT	Homo sapiens RHCE mRNA for Rh blood CE group a	NT	AB030388.1		0.9	11845	6674	1547
13260 1.0 3.00E-62 AB040909.1 NT 13261 1.0 3.00E-62 AB040909.1 NT 13872 1.9 3.00E-62 AB040909.1 NT 11501 0.5 2.00E-62 AF248540.1 NT 11823 1.2 1.00E-62 AF248540.1 NT 11820 2.5 1.00E-62 AF248540.1 NT 11820 1.0 1.00E-62 AF248540.1 NT 12060 1.0 1.00E-62 AA625207.1 EST_HUMAN 13138 1.1 1.00E-62 AL039044.1 EST_HUMAN 14640 1.3 1.00E-62 B923201 NT 10641 0.7 9.00E-63 AW816405.1 EST_HUMAN 14170 7.4 9.00E-63 AW816405.1 EST_HUMAN 14170 7.4 9.00E-63 AB002348.2 NT 12699 0.6 8.00E-63 AB002348.2 NT 12699 0.6 8.00E-63 AF198349.1 NT 13666 3.8 8.00E-63 AF198349.1 NT 13667 3.8 8.00E-63 AF198349.1 NT 13668 3.4 8.00E-63 AF198349.1 NT 13669 0.6 7.00E-63 AL163268.2 NT 13769 0.7 3.00E-63 AB018260.1 NT 13833 1.0 4.00E-63 AB172137.1 EST_HUMAN 13533 1.0 4.00E-63 AB018260.1 NT 13508 1.3 3.00E-63 AB018260.1 NT 13661 3.1 3.00E-63 AB018260.1 NT 13661 3.2 3.00E-63 AW954734.1 EST_HUMAN 10504 1.1 2.00E-63 AW954734.1 EST_HUMAN	Homo sapiens RHCE mRNA for Rh blood CE group a	NT	AB030388.1		0.9	11844	6674	1547
13260 1.0 3.00E-62 AB040909.1 NT 13261 1.0 3.00E-62 AB040909.1 NT 13672 1.9 3.00E-62 AB040909.1 NT 11501 0.5 2.00E-62 AL163284.2 NT 11523 1.2 1.00E-62 AF248540.1 NT 11620 2.5 1.00E-62 AF248540.1 NT 11620 2.5 1.00E-62 AF248540.1 NT 13138 1.1 1.00E-62 AA625207.1 EST_HUMAN 13138 1.1 1.00E-62 AL039044.1 EST_HUMAN 14640 1.3 1.00E-63 AW816405.1 EST_HUMAN 14640 1.3 1.00E-63 AW816405.1 EST_HUMAN 14770 7.4 9.00E-63 AB002348.2 NT 14771 7.4 9.00E-63 AB002348.2 NT 12634 0.8 8.00E-63 AF198349.1 NT 13666 3.8 8.00E-63 AF198349.1 NT 13667 3.8 8.00E-63 AF198349.1 NT 13668 3.4 8.00E-63 AF198349.1 NT 13798 0.7 3.00E-63 AB018260.1 NT 13938 1.3 3.00E-63 AB018260.1 NT 13661 3.2 3.00E-63 AW954734.1 EST_HUMAN 10504 1.1 2.00E-63 AW954734.1 NT	Homo sapiens Down syndrome candidate region 1 (D:	NT	7657042	2.00E-63	1.8	11115	5960	809
13260 1.0 3.00E-62 AB040909.1 NT 13261 1.0 3.00E-62 AB040909.1 NT 13872 1.9 3.00E-62 AB040909.1 NT 11501 0.5 2.00E-62 AL163284.2 NT 11323 1.2 1.00E-62 AF248540.1 NT 11820 2.5 1.00E-62 AF248540.1 NT 11820 1.0 1.00E-62 AA625207.1 EST_HUMAN 13138 1.1 1.00E-62 AA625207.1 EST_HUMAN 13138 1.1 1.00E-62 AB042944.1 EST_HUMAN 13138 1.1 1.00E-63 AW816405.1 EST_HUMAN 14640 1.3 1.00E-63 C18159.1 EST_HUMAN 14770 7.4 9.00E-63 AB002348.2 NT 14771 7.4 9.00E-63 AB002348.2 NT 12609 0.6 8.00E-63 AB02348.2 NT 12609 0.6 8.00E-63 AF198349.1 NT 13667 3.8 8.00E-63 AF198349.1 NT 13667 3.4 8.00E-63 AF198349.1 NT 13667 3.4 8.00E-63 AF198349.1 NT 13667 3.4 8.00E-63 AF198349.1 NT 13667 3.5 3.00E-63 AF198349.1 NT 13667 3.1 3.00E-63 AB018260.1 NT 13668 0.7 3.00E-63 AB018260.1 NT 13669 0.6 7.00E-63 AB018260.1 NT 13660 3.1 3.00E-63 AB018260.1 NT 13661 3.2 3.00E-63 AV9854734.1 EST_HUMAN 10504 1.1 2.00E-63 AV9854734.1 EST_HUMAN 10504 1.1 2.00E-63 NV954734.1 EST_HUMAN 10504 0.6 2.00E-63 AV9854734.1 EST_HUMAN	Homo sapiens glutamate-cysteine ligase (gamma-glut (72.8kD) (GLCLC) mRNA	NT	4557624	2.00E-63	1.4		5654	489
13260 1.0 3.00E-62 AB040909.1 NT 13261 1.0 3.00E-62 AB040909.1 NT 13872 1.9 3.00E-62 X52858.1 NT 11501 0.5 2.00E-62 AL163284.2 NT 11323 1.2 1.00E-62 AF248540.1 NT 11820 2.5 1.00E-62 AF248540.1 NT 12060 1.0 1.00E-62 AA625207.1 EST_HUMAN 13138 1.1 1.00E-62 AA625207.1 EST_HUMAN 13138 1.1 1.00E-63 AW816405.1 EST_HUMAN 14640 1.3 1.00E-63 AW816405.1 EST_HUMAN 14170 7.4 9.00E-63 AW816405.1 EST_HUMAN 14170 7.4 9.00E-63 AB002348.2 NT 12609 0.6 8.00E-63 AB002348.2 NT 13666 3.8 8.00E-63 AF198349.1 NT 13667 3.8 8.00E-63 AF198349.1 NT 13687 3.8 8.00E-63 AF198349.1 NT 13687 3.8 8.00E-63 AF198349.1 NT 13687 3.4 8.00E-63 AF198349.1 NT 13687 3.4 8.00E-63 AF198349.1 NT 13687 3.4 8.00E-63 AF198349.1 NT 13688 0.7 3.00E-63 AF198349.1 NT 13689 0.7 3.00E-63 AB018260.1 NT 13681 3.1 3.00E-63 AB018260.1 NT 13681 3.2 3.00E-63 AW954734.1 EST_HUMAN 10504 1.1 2.00E-63 AW954734.1 EST_HUMAN 10504 1.1 2.00E-63 AW954734.1 EST_HUMAN	Homo sapiens eyes absent (Drosophila) homolog 2 (E	NT	4885226	2.00E-63	0.6	10512	5385	191
13260 1.0 3.00E-62 AB040909.1 NT 13261 1.0 3.00E-62 AB040909.1 NT 13872 1.9 3.00E-62 X52858.1 NT 11501 0.5 2.00E-62 AL163284.2 NT 11323 1.2 1.00E-62 AF248540.1 NT 11820 2.5 1.00E-62 AF248540.1 NT 12060 1.0 1.00E-62 AA625207.1 EST_HUMAN 13138 1.1 1.00E-62 AL039044.1 EST_HUMAN 14640 1.3 1.00E-63 AW816405.1 EST_HUMAN 14170 7.4 9.00E-63 AW816405.1 EST_HUMAN 14170 7.4 9.00E-63 AB002348.2 NT 12609 0.6 8.00E-63 AB002348.2 NT 13666 3.8 8.00E-63 AF198349.1 NT 13667 3.8 8.00E-63 AF198349.1 NT 13667 3.8 8.00E-63 AF198349.1 NT 13667 3.8 8.00E-63 AF198349.1 NT 13687 3.4 8.00E-63 AF198349.1 NT 13687 0.6 7.00E-63 AF198349.1 NT 13687 3.4 8.00E-63 AF198349.1 NT 13687 3.4 8.00E-63 AF198349.1 NT 13687 0.6 7.00E-63 AF198349.1 NT 13687 3.4 8.00E-63 AF198349.1 NT 13698 0.7 3.00E-63 AB018260.1 NT	Human DNA topoisomerase i mRNA, partial cds	NT	U07804.1	ш	1.1	10504	5378	184
13260 1.0 3.00E-62 AB040909.1 NT 13261 1.0 3.00E-62 AB040909.1 NT 13872 1.9 3.00E-62 X52858.1 NT 11501 0.5 2.00E-62 AL163284.2 NT 11323 1.2 1.00E-62 AF248540.1 NT 11820 2.5 1.00E-62 L78810.1 NT 12060 1.0 1.00E-62 L78810.1 NT 13138 1.1 1.00E-62 AA625207.1 EST_HUMAN 13138 1.1 1.00E-62 AB02348.2 NT 10641 0.7 9.00E-63 AVW816405.1 EST_HUMAN 14170 7.4 9.00E-63 AW816405.1 EST_HUMAN 14171 7.4 9.00E-63 AB002348.2 NT 12609 0.6 8.00E-63 AB002348.2 NT 13666 3.8 8.00E-63 AF198349.1 NT 13667 3.8 8.00E-63 AF198349.1 NT 13667 3.8 8.00E-63 AF198349.1 NT 1367 3.8 8.00E-63 AF198349.1 NT 13687 3.8 8.00E-63 AF198349.1 NT 13687 3.4 8.00E-63 AF198349.1 NT 13698 0.7 3.00E-63 AB018260.1 NT 13038 1.3 3.00E-63 AB018260.1 NT 13130 0.7 3.00E-63 AB018260.1 NT 13130 0.7 3.00E-63 AB018260.1 NT	EST366804 MAGE resequences, MAGC Homo sapien		AW954734.1		3.2	14661	9565	4445
13260 1.0 3.00E-62 AB040909.1 NT 13261 1.0 3.00E-62 AB040909.1 NT 13872 1.9 3.00E-62 X52858.1 NT 11501 0.5 2.00E-62 AL163284.2 NT 11323 1.2 1.00E-62 AF248540.1 NT 11820 2.5 1.00E-62 AF248540.1 NT 12060 1.0 1.00E-62 AA625207.1 EST_HUMAN 13138 1.1 1.00E-62 AA625207.1 EST_HUMAN 13138 1.1 1.00E-63 AV816405.1 EST_HUMAN 14170 7.4 9.00E-63 AV816405.1 EST_HUMAN 14171 7.4 9.00E-63 AB002348.2 NT 12609 0.6 8.00E-63 AB002348.2 NT 12609 0.6 8.00E-63 AB002348.2 NT 13666 3.8 8.00E-63 AF198349.1 NT 13667 3.8 8.00E-63 AF198349.1 NT 13687 3.8 8.00E-63 AF198349.1 NT 13687 3.8 8.00E-63 AF198349.1 NT 13687 3.8 8.00E-63 AF198349.1 NT 13688 0.7 3.00E-63 AB018260.1 NT 13698 0.7 3.00E-63 AB018260.1 NT 13038 1.3 3.00E-63 AB018260.1 NT	protein 144 (Mei-	NT	6005963	3.00E-63	3.1	11510	6349	2791
13260 1.0 3.00E-62 AB040909.1 NT 13261 1.0 3.00E-62 AB040909.1 NT 13872 1.9 3.00E-62 X52858.1 NT 11501 0.5 2.00E-62 AL163284.2 NT 11323 1.2 1.00E-62 AF248540.1 NT 11820 2.5 1.00E-62 AF248540.1 NT 12060 1.0 1.00E-62 AA625207.1 EST_HUMAN 13138 1.1 1.00E-62 AA625207.1 EST_HUMAN 134640 1.3 1.00E-63 AV816405.1 EST_HUMAN 14170 7.4 9.00E-63 AV816405.1 EST_HUMAN 14171 7.4 9.00E-63 AB002348.2 NT 12609 0.6 8.00E-63 AB002348.2 NT 12609 0.6 8.00E-63 AF198349.1 NT 13666 3.8 8.00E-63 AF198349.1 NT 13667 3.8 8.00E-63 AF198349.1 NT 13633 1.0 4.00E-63 AL163278.2 NT 13533 1.0 4.00E-63 AB018260.1 NT		NT	J00310.1		1.3	13038	7837	2753
13260 1.0 3.00E-62 AB040909.1 NT 13261 1.0 3.00E-62 AB040909.1 NT 13872 1.9 3.00E-62 X52858.1 NT 11501 0.5 2.00E-62 AL163284.2 NT 11323 1.2 1.00E-62 AF248540.1 NT 11820 2.5 1.00E-62 L78810.1 NT 12060 1.0 1.00E-62 AA625207.1 EST_HUMAN 13138 1.1 1.00E-62 AB023201 NT 14640 1.3 1.00E-63 AV816405.1 EST_HUMAN 14170 7.4 9.00E-63 AV816405.1 EST_HUMAN 14171 7.4 9.00E-63 AB002348.2 NT 12609 0.6 8.00E-63 AB002348.2 NT 12609 0.6 8.00E-63 AF198349.1 NT 13666 3.8 8.00E-63 AF198349.1 NT 13667 3.8 8.00E-63 AF198349.1 NT 1367 3.8 8.00E-63 AF198349.1 NT 13687 3.4 8.00E-63 AF198349.1 NT	l• '	NT	AB018260.1		0.7	12198	7010	1893
13260 1.0 3.00E-62 AB040909.1 NT 13261 1.0 3.00E-62 AB040909.1 NT 13872 1.9 3.00E-62 X52858.1 NT 11501 0.5 2.00E-62 AL163284.2 NT 11323 1.2 1.00E-62 AF248540.1 NT 11820 2.5 1.00E-62 L78810.1 NT 12060 1.0 1.00E-62 L78810.1 NT 13138 1.1 1.00E-62 AA625207.1 EST_HUMAN 13138 1.1 1.00E-62 AB023201 NT 10641 0.7 9.00E-63 AW816405.1 EST_HUMAN 14170 7.4 9.00E-63 AB002348.2 NT 14171 7.4 9.00E-63 AB002348.2 NT 12609 0.6 8.00E-63 AB002348.2 NT 12609 0.6 8.00E-63 AF198349.1 NT 13666 3.8 8.00E-63 AF198349.1 NT 13667 3.8 8.00E-63 AF198349.1 NT 14375 3.4 8.00E-63 AL163268.2 NT 14375 0.6 7.00E-63 AL163268.2 NT	၊က	NT	AL163278.2		1.0	13533	8424	3279
13260 1.0 3.00E-62 AB040909.1 NT 13261 1.0 3.00E-62 AB040909.1 NT 13872 1.9 3.00E-62 X52858.1 NT 11501 0.5 2.00E-62 AL163284.2 NT 11323 1.2 1.00E-62 AF248540.1 NT 11820 2.5 1.00E-62 L78810.1 NT 11820 1.0 1.00E-62 L78810.1 NT 12060 1.0 1.00E-62 AA625207.1 EST_HUMAN 13138 1.1 1.00E-62 AB023201 NT 14640 1.3 1.00E-63 AW816405.1 EST_HUMAN 10641 0.7 9.00E-63 AW816405.1 EST_HUMAN 14170 7.4 9.00E-63 AB002348.2 NT 14171 7.4 9.00E-63 AB002348.2 NT 12609 0.6 8.00E-63 AB002348.2 NT 13666 3.8 8.00E-63 AF198349.1 NT 13667 3.8 8.00E-63 AF198349.1 NT 14375 3.4 8.00E-63 AL163268.2 NT	wm55g11.x1 NCI_CGAP_Ut2 Homo saplens cDNA clor		AI872137.1		0.6		6059	913
13260 1.0 3.00E-62 AB040909.1 NT 13261 1.0 3.00E-62 AB040909.1 NT 13872 1.9 3.00E-62 X52858.1 NT 11501 0.5 2.00E-62 AL163284.2 NT 11323 1.2 1.00E-62 AF248540.1 NT 11820 2.5 1.00E-62 L78810.1 NT 11820 1.0 1.00E-62 L78810.1 NT 12060 1.0 1.00E-62 AA625207.1 EST_HUMAN 13138 1.1 1.00E-62 AB023201 NT 13640 1.3 1.00E-62 AW816405.1 EST_HUMAN 10641 0.7 9.00E-63 C18159.1 EST_HUMAN 14170 7.4 9.00E-63 C18159.1 EST_HUMAN 14171 7.4 9.00E-63 AB002348.2 NT 12609 0.6 8.00E-63 AB002348.2 NT 12609 0.6 8.00E-63 AB002348.2 NT 12609 0.6 8.00E-63 AF198349.1 NT 13667 3.8 8.00E-63 AF198349.1 NT	Homo sapiens chromosome 21 segment HS21C068	NT	AL163268.2		3.4	14375	9294	4168
13260 1.0 3.00E-62 AB040909.1 NT 13261 1.0 3.00E-62 AB040909.1 NT 13872 1.9 3.00E-62 X52858.1 NT 11501 0.5 2.00E-62 AL163284.2 NT 11323 1.2 1.00E-62 AF248540.1 NT 11820 2.5 1.00E-62 L78810.1 NT 11820 1.0 1.00E-62 L78810.1 NT 12060 1.0 1.00E-62 AA625207.1 EST_HUMAN 13138 1.1 1.00E-62 AL039044.1 EST_HUMAN 14640 1.3 1.00E-62 AB04816405.1 EST_HUMAN 10641 0.7 9.00E-63 AW816405.1 EST_HUMAN 14170 7.4 9.00E-63 C18159.1 EST_HUMAN 14171 7.4 9.00E-63 AB002348.2 NT 14171 7.4 9.00E-63 AB002348.2 NT 12609 0.6 8.00E-63 AB002348.2 NT 12604 0.8 8.00E-63 AB002348.2 NT 13666 3.8 8.00E-63 AF198349.1 NT	Gallus gallus Dach2 protein (Dach2) mRNA, complete c	NT	AF198349.1		3.8	13667	8557	3415
13260 1.0 3.00E-62 AB040909.1 NT 13261 1.0 3.00E-62 AB040909.1 NT 13872 1.9 3.00E-62 X52858.1 NT 11501 0.5 2.00E-62 AL163284.2 NT 11323 1.2 1.00E-62 AF248540.1 NT 11820 2.5 1.00E-62 L78810.1 NT 11820 1.0 1.00E-62 AA625207.1 EST_HUMAN 12060 1.0 1.00E-62 AA625207.1 EST_HUMAN 13138 1.1 1.00E-62 AL039044.1 EST_HUMAN 13138 1.1 1.00E-62 AL039044.1 EST_HUMAN 10641 0.7 9.00E-63 AW816405.1 EST_HUMAN 14170 7.4 9.00E-63 C18159.1 EST_HUMAN 14171 7.4 9.00E-63 AB002348.2 NT 14171 7.4 9.00E-63 AB002348.2 NT 12609 0.6 8.00E-63 AB002348.2 NT 12604 0.8 8.00E-63 AB002348.2 NT	Gallus gallus Dach2 protein (Dach2) mRNA, complete o	NT	AF198349.1		3.8	13666	8557	3415
13260 1.0 3.00E-62 AB040909.1 NT 13261 1.0 3.00E-62 AB040909.1 NT 13872 1.9 3.00E-62 X52858.1 NT 11501 0.5 2.00E-62 AL163284.2 NT 11323 1.2 1.00E-62 AF248540.1 NT 11820 2.5 1.00E-62 AF248540.1 NT 11820 1.0 1.00E-62 AA625207.1 EST_HUMAN 12060 1.0 1.00E-62 AL039044.1 EST_HUMAN 13138 1.1 1.00E-62 AL039044.1 EST_HUMAN 14640 1.3 1.00E-62 AL039044.1 EST_HUMAN 10641 0.7 9.00E-63 AW816405.1 EST_HUMAN 14170 7.4 9.00E-63 C18159.1 EST_HUMAN 14171 7.4 9.00E-63 AB002348.2 NT 14171 7.4 9.00E-63 AB002348.2 NT	Homo sapiens IL2-inducible T-cell kinase (ITK), mRNA	NT	5031810	8.00E-63	0.8	12634	7425	2322
13260 1.0 3.00E-62 AB040909.1 NT 13261 1.0 3.00E-62 AB040909.1 NT 13872 1.9 3.00E-62 X52858.1 NT 11501 0.5 2.00E-62 AL163284.2 NT 11323 1.2 1.00E-62 AF248540.1 NT 11820 2.5 1.00E-62 L78810.1 NT 12060 1.0 1.00E-62 AA625207.1 EST_HUMAN 13138 1.1 1.00E-62 AL039044.1 EST_HUMAN 13138 1.1 1.00E-62 AL039044.1 EST_HUMAN 14640 1.3 1.00E-62 AW816405.1 EST_HUMAN 10641 0.7 9.00E-63 AW816405.1 EST_HUMAN 1470 7.4 9.00E-63 AB002348.2 NT	Homo sapiens monoamine oxidase A (MAOA), nuclear (mRNA	NT	4557734	8.00E-63	0.6	12609	7400	2296
13260 1.0 3.00E-62 AB040909.1 NT 13261 1.0 3.00E-62 AB040909.1 NT 13872 1.9 3.00E-62 X52858.1 NT 11501 0.5 2.00E-62 AL163284.2 NT 11323 1.2 1.00E-62 AF248540.1 NT 11820 2.5 1.00E-62 L78810.1 NT 12060 1.0 1.00E-62 AA625207.1 EST_HUMAN 13138 1.1 1.00E-62 AL039044.1 EST_HUMAN 13640 1.3 1.00E-62 AB923201 NT 14640 0.6 9.00E-63 AW816405.1 EST_HUMAN 10641 0.7 9.00E-63 AW816405.1 EST_HUMAN 14170 7.4 9.00E-63 AB002348.2 NT	Homo sapiens mRNA for KIAA0350 protein, partial cds	NT	AB002348.2		7.4	14171	9088	3955
13260 1.0 3.00E-62 AB040909.1 NT 13261 1.0 3.00E-62 AB040909.1 NT 13872 1.9 3.00E-62 X52858.1 NT 11501 0.5 2.00E-62 AL163284.2 NT 11323 1.2 1.00E-62 AF248540.1 NT 11820 2.5 1.00E-62 L78810.1 NT 12060 1.0 1.00E-62 AA625207.1 EST_HUMAN 13138 1.1 1.00E-62 AL039044.1 EST_HUMAN 14640 1.3 1.00E-62 AW816405.1 EST_HUMAN 10641 0.7 9.00E-63 AW816405.1 EST_HUMAN 0.6 9.00E-63 C18159.1 EST_HUMAN	Homo sapiens mRNA for KIAA0350 protein, partial cds	NT	AB002348.2	9.00E-63	7.4	14170	9088	3955
13260 1.0 3.00E-62 AB040909.1 NT 13261 1.0 3.00E-62 AB040909.1 NT 13872 1.9 3.00E-62 X52858.1 NT 11501 0.5 2.00E-62 AL163284.2 NT 11323 1.2 1.00E-62 AF248540.1 NT 11820 2.5 1.00E-62 L78810.1 NT 12060 1.0 1.00E-62 AA625207.1 EST_HUMAN 13138 1.1 1.00E-62 AL039044.1 EST_HUMAN 14640 1.3 1.00E-62 B923201 NT 10641 0.7 9.00E-63 AW816405.1 EST_HUMAN	C18159 Human placenta cDNA (TFujiwara) Homo sapie	EST_HUMAN	C18159.1		0.6		7401	2297
13260 1.0 3.00E-62 AB040909.1 NT 13261 1.0 3.00E-62 AB040909.1 NT 13872 1.9 3.00E-62 X52858.1 NT 11501 0.5 2.00E-62 AL163284.2 NT 11323 1.2 1.00E-62 AF248540.1 NT 11820 2.5 1.00E-62 L78810.1 NT 12060 1.0 1.00E-62 AA625207.1 EST_HUMAN 13138 1.1 1.00E-62 AL039044.1 EST_HUMAN 14640 1.3 1.00E-62 B923201 NT	QV4-ST0234-181199-037-f05 ST0234 Homo saplens ct	EST_HUMAN	AW816405.1		0.7	10641	5516	335
13260 1.0 3.00E-62 AB040909.1 NT 13261 1.0 3.00E-62 AB040909.1 NT 13872 1.9 3.00E-62 X52858.1 NT 11501 0.5 2.00E-62 AL163284.2 NT 11323 1.2 1.00E-62 AF248540.1 NT 11820 2.5 1.00E-62 L78810.1 NT 12060 1.0 1.00E-62 AA625207.1 EST_HUMAN 13138 1.1 1.00E-62 AL039044.1 EST_HUMAN		NT	8923201		1.3	14640	9547	4426
13260 1.0 3.00E-62 AB040909.1 NT 13261 1.0 3.00E-62 AB040909.1 NT 13872 1.9 3.00E-62 X52858.1 NT 11501 0.5 2.00E-62 AL163284.2 NT 11323 1.2 1.00E-62 AF248540.1 NT 11820 2.5 1.00E-62 L78810.1 NT 12060 1.0 1.00E-62 AA625207.1 EST_HUMAN	DKFZp566F104_r1 566 (synonym: hfkd2) Homo sapien	EST_HUMAN	AL039044.1		1.1	13138	8035	2884
13260 1.0 3.00E-62 AB040909.1 NT 13261 1.0 3.00E-62 AB040909.1 NT 13872 1.9 3.00E-62 X52858.1 NT 11501 0.5 2.00E-62 AL163284.2 NT 11323 1.2 1.00E-62 AF248540.1 NT 11820 2.5 1.00E-62 L78810.1 NT	af70e11.r1 Soares_NhHMPu_S1 Homo sapiens cDNA WP:K01H12.1 CE03453;	EST_HUMAN	AA625207.1		1.0	12060	6879	1758
13260         1.0         3.00E-62         AB040909.1         NT         Homo saplens mRNA for KIAA1476 protein           13261         1.0         3.00E-62         AB040909.1         NT         Homo saplens mRNA for KIAA1476 protein           13872         1.9         3.00E-62         X52858.1         NT         Human cyclophilin-related processed pseud           11501         0.5         2.00E-62         AL163284.2         NT         Homo saplens chromosome 21 segment H3           11323         1.2         1.00E-62         AF248540.1         NT         Homo saplens Intersectin 2 (SH3D1B) mRN	Homo sapiens ADP/ATP carrier protein (ANT-2) gene, or	NT	L78810.1	-	2.5	11820	6653	1526
13260         1.0         3.00E-62         AB040909.1         NT         Homo sapiens mRNA for KIAA1476 protein           13261         1.0         3.00E-62         AB040909.1         NT         Homo sapiens mRNA for KIAA1476 protein           13872         1.9         3.00E-62         X52858.1         NT         Human cyclophilin-related processed pseud           11501         0.5         2.00E-62         AL163284.2         NT         Homo sapiens chromosome 21 segment H	Homo saplens Intersectin 2 (SH3D1B) mRNA, complete	NT	AF248540.1		1.2	11323	6168	1028
13260   1.0   3.00E-62   AB040909.1   NT   Homo sapiens mRNA for KIAA1476 protein   13261   1.0   3.00E-62   AB040909.1   NT   Homo sapiens mRNA for KIAA1476 protein   13872   1.9   3.00E-62   X52858.1   NT   Human cyclophilin-related processed pseudomatical processes   NT   NT   Human cyclophilin-related processed pseudomatical processes   NT   NT   Human cyclophilin-related processes   NT   NT   Huma	Homo sapiens chromosome 21 segment HS21C084	NT	AL163284.2	_	0.5	11501	6342	1211
13260 1.0 3.00E-62 AB040909.1 NT Homo saplens mRNA for KIAA1476 protein 13261 1.0 3.00E-62 AB040909.1 NT Homo saplens mRNA for KIAA1476 protein	Human cyclophilin-related processed pseudogene	NT	X52858.1		1.9	13872	8779	3640
13260 1.0 3.00E-62 AB040909.1 INT Homo sapiens mRNA for KIAA1476 protein	Homo saplens mRNA for KIAA1476 protein, partial cds	NT	AB040909.1		1.0	13261	8160	3008
	Homo sapiens mRNA for KIAA1476 protein, partial cds	NT.	AB040909.1		:5	13260	8160	3008

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1740	258	3719	3719	3101	2484	2484	2478	1376	1072	2151	3876	2796	2796	1683	1402	1402	803	803	3084	3084	2675	1692	1692	4625	4625	3486	4674	1030	1307	1307	4246	4246
6863		8856		8251	7581	7581	7576	6504	6210	7261	9012	6592		П	_	٦	5954		T	П	$\neg$	6816	6816	9739	9739	8627	9786	6170	6436	6436		9371
12040	10571	13949	13948	13355	12785	12784		11669	11363	12468	14107	11768	11767	11989	11700	11699	11107	11106	13334	13333	12962	11996	11995	14836	14835				11603	11602	14451	14450
2.1	0.6	1.3	1.3	2.6	=======================================	1.1	0.6	1.3	0.9	1.4	5.6	1.0	1.0	0.6	0.9	0.9	0.8	0.8	3.7	3.7	:1	0.6	0.6	2.4	2.4	1.0	5.2	2.7	9.0	0.6	2.9	2.9
1.00E-64	1.00E-64	2.00E-64	2.00E-64	2.00E-64	2.00E-64	2.00E-64	2.00E-64	2.00E-64	2.00E-64	3.00E-64	5.00E-64	5.00E-64	5.00E-64	5.00E-64	5.00E-64	5.00E-64	5.00E-64	5.00E-64	6.00E-64	6.00E-64	6.00E-64	6.00E-64	6.00E-64	7.00E-64	7.00E-64	7.00E-64	8.00E-64	8.00E-64	9.00E-64	9.00E-64	1.00E-63	1.00E-63
.00E-64 AI929419.1	AF231919.1	AW958145.1			AL163246.2	1	AI927030.1	4757701	AA609940.1	C18895.1	1	7662205 NT	7682205 NT	U89358.1	L40933.1	L40933.1	AF231919.1		AW026445.1	AW026445.1	BE252937.1	Al651992.1	Al651992.1	4507490 NT	4507490 NT	BE394321.1	AL163213.2	BE280796.1	H30687.1	H30687.1	F08485.1	1.00E-63 F08485.1
EST_HUMAN	T	EST_HUMAN	EST_HUMAN		N	ZT	EST HUMAN	J.N.	EST_HUMAN		NT	5NT	5NT	N.T	NT	NT	NT	S	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	ONT NT	ONT	EST_HUMAN	NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN
au60c01.x1 Schneider tetal brain 00004 Homo sapiens curvo durie invoce. 20 1 00 0 similar to gb:L21696_cds1 PROTHYMOSIN ALPHÁ (HUMAN);contains element MSR1 repetitive element ;		EST370215 MAGE resequences, MAGE Homo sapiens CUNA	EST370215 MAGE resequences, MAGE Homo sapiens CUNA	aminotransferase 2) (GOT2), nuclear gene encoding mitochondrial protein, mRNA	Homo sapiens Chromosome 21 segment noz i Curro	Homo sapiens chromosome 21 segment H321CU40	contains element L1 repetitive element;	wo87b01.x1 NCI CGAP Kid11 Homo sapiens cDNA done iMAGE:2462281 3' similar to	anygous 1 Soares Tesus NH Homo Sapiens GUNA Goine IMANGET 1931 (3)	C18895 Human placenta CUNA (I rujiwara) nomo sapiens cuna dorie ocia-oscoz o	Homo sapiens putative transcription factor CR53 (CR53) mKNA, parual cus	Homo sapiens KIAA0518 gene product (KIAAU518), MKNA			Homo sapiens phosphoglucomutase-related protein (PGMKP) gene, complete cus	Homo sapiens phosphoglucomutase-related protein (PGMRP) gene, complete cus	Homo sapiens chromosome 21 unknown mKNA	Homo sapiens chromosome 21 unknown mkNA	wy13e03.x1 NCI_CGAP_Bm23 Homo sapiens cDNA clone IMAGE:2529436 3	WV13e03.x1 NCI_CGAP_Bm23 Homo sapiens cUNA cone IMAGE:2029430 3	601117525F1 NIH_MGC_16 Homo sapiens cDNA Gone IMAGE:335/900 0	gb:M15182 BETA-GLUCURONIDASE PRECURSOR (HUMAN);	gb:M15182 BETA-GLUCURONIDASE PRECURSOR (HUMAN);	Homo sapiens thimet oligopepudase 1 (LHUP1) mknA	Homo sapiens thimet oligopeptidase 1 (THOP1) mRNA	601311455F1 NIH MGC 44 Homo sapiens cDNA clone IMAGE:3533204 5	Homo saplens chromosome 21 segment HS21CU13		yo78c02.r1 Soares adult brain N2b4HB55Y Homo sapiens cDNA clone IMAGE:184034 5'	yo78c02.r1 Soares adult brain N2b4HB55Y Homo sapiens cDNA clone IMAGE:184034 5'	HSCZVD111 normalized infant brain cDNA Homo sapiens cDNA cione c-zvo i	HSCZVD111 normalized Infant brain cDNA Homo sapiens cDNA done c-zvd11

	1000	Aluuusz. I	3.001-65	50	13893	8799	3660	
contains element MSR1 repetitive element;	TOT HIMAN	2000	}	•				
lov23f03.s1 Soares testis NHT Homo sapiens cDNA clone IMAGE:1638173 3 similar to			3.000-00	7.4	13494	8386	3239	
Homo saplens taminin, beta 1 (LAMB1), MKNA			3 200 55		Τ	Г	1/80	
contains element MSR1 repetitive element:	EST_HUMAN	AI000692.1	3.00E-65	<u>.</u>				
ov23f03.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1638173 3' Similar to		VI 0975'	3.000-00	1.00		7868	1212	
H. saplens HZF9 mRNA for zinc finger protein	NT V		4.00E-65	1.0	15308	10233	5138	
Homo sapiens low delisity lipoproxim cooper	<u>-</u>							
mRNA	NT	9055269 NT	4.00E-65	1.0	15307	10233	5138	
Homo saplens low density lipoprotein receptor related protein-deleted in tumor (LKFUIT),		01.55	#.00E-00	1.0	12601	7393	2288	
hu25e04.x1 NCI_CGAP_Mel15 Homo saplens cDNA clone IMAGE:3171102 3	EST HUMAN	BE221409.1	4.000-65	1.0	12600		2288	
hu25e04.x1 NCI CGAP Mei15 Homo sapiens cDNA clone IMAGE:3171102 3'	EST HIMAN	400000	4.001-65	3.0	11772	6597	1470	_
Homo saplens ribosomal protein L34 (RPL34) mRNA	NIT	400000	4.001-00	0.6	11354	6200	1062	_
Homo sapiens fragile X mental retardation, autosomal homolog 1 (FXR1), mRNA	EST_HUMAN	AI266468.1		0.5	11024	5882	728	
qm46e01.x1 Soares_placenta_8tobweeks_2NonPottoevy Hours saprens 55.55.			1		1,050	7000	/20	2
IMAGE:1891800 3'	EST_HUMAN	AI266468.1	4.00E-65	ට ඌ	11002	n n n n n n n n n n n n n n n n n n n	326	<u>,0,</u>
DKFZp761G108_r1 761 (synonym: namyz) nomb septems of the property of Source placenta 8to9weeks 2NbHP8to9W Homo sapiens cDNA clone	EST_HUMAN	AL120419.1	4.00E-65	±	10507	5380	186	∪ —¬
Some DEFZ0761G108 5	12	400/040/11	5.00E-65	1.9	13477	8365	3217	
	NT I	4507040 NT	5.00E-65	1.9	13476	8365	3217	_
Homo sapiens ublaultin specific protease 13 (Isopeptidase T-3) (USP13) mRNA	1	BE3110/3.1		1.0	12648	7438	2336	_
601142961F1 NIH MGC 14 Homo sapiens cDNA clone IMAGE:3506774 5'	NAM HIMAN	AB033768.1	1	1.0	12430	7221	2110	
Homo sapiens hPAD-colony10 mRNA for pepudylarginine delimitase type i, complete we	i							1
Horno saprens whose the government of the complete cds	2	7661951 NI	5.00E-65	0.6	11627	0460 60	1331	_
Long spring KIAA0156 gene product (KIAA0156), mRNA	2	7661951 NI	5.00E-65	0.6	11626	64 60	1331	_
Lamo cantens KIAA0156 gene product (KIAA0156), mRNA	2	AF064604.1	_	0.9	10894	5773	615	_
gb:K03002 60S RIBOSOMAL PROTEIN L32 (HUMAN);	T_HUMAN			3.0		6998	1880	
LIBEA10 s1 NCI CGAP Pr11 Homo sapiens cDNA clone IMAGE:999379 similar to	N	X89211.1	9.00E-65	0.9	12550	7337	2230	7
H saniens DNA for endogenous retroviral like element			1_	0.9	12549	7337	2230	Т
H saniens DNA for endogenous retroviral like element		711776		0.5	11895	6725	1598	Т
Homo saplens hypothetical protein FLJ10923 (FLJ10923), mRNA		IN 211769	1.00=94	2.7		9268	4142	1
Homo sanians hypothetical protein FLJ10923 (FLJ10923), mRNA		AFZZ85Z7.1		1.3	13781	8677	3536	Т
Homo sapiens TRIAD3 mRNA, partial cds				L	13780	8677	3536	7
Homo saniens TRIAD3 mRNA, partial cds				5.6	13720	8607	3466	_
T54 protein, JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synaptophysin genes, complete cds; and L-type calcium channel a>								
in the secondarion factor IGHM enhancer 3, JM11 protein, JM4 protein, JM5 protein,								1

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•	1408		2425	2235	773	1344	4269		4269	4269	4591	3820	3826	2400	2480	1400	1332	1332	g	3 8	4415		4415	4112	4112	3917	3917	3326	1994	528	4551	\ \
6535	8 6535		5 7524	Γ.	Г	П	Г		.9394	9394	8/03	T	7	Т	7578	Т	Т	Т	Т	22/3	300		9535	9238	9238	9051	9051	8470	7110	5892 2	9670	
11708	11707		4	2 12504	Τ	Τ	Γ		14477	14476	14/80	T	T	Т	1	19770	1.050	Т	T	Т	10306	11000	14624	14322	14321	14139	14138	13584	12313	10814	14760	_
8.9	8.9		1.5	١٠	2 6	0.0	2 .	3	1.2	1.2	6.6		0.9	62	5		15	09	2	05	0.5	<u>.</u>	=	2.4	2.4	2.1	2.1	9	0.9	13	1.4	
3.00E-66	3.00E-66		4.000	1.000	4.00E-88	4 00E-66	5.000	- 6 00E-66	6.00E-66	6.00E-66		8 00E-66	9.00.8	9.00€-66	9.00€-66	9.00E-66	9,00€-66	9.00E-66	9.00E-66	9.00.6	9.00E-66	1.00E-65	1.00E-65	1.000	1.000	1.000	1.000	1.000.65	1.00E-05	1.000	3.00E-65	
	1				X89211.	1_		Al924653.1	AI924653.1	AI924653.1		AA424304.1		M72393.1			M87299.	5031980 NT	_			AW136725.1	AW136725.1	200	1.00E-65 AW029340.1	AW/020340.1	4504082	1.00E-65   DE-70000 4504082	A DOC DE DEARARA 1	ABOMOMA 1	6912385 NT	
4502098 NT	30	4500008 NT		NT T	N.	픠	EST HUMAN	EST_HUMAN	EST_HUMAN	EST TOWN		EST_HUMAN	N	NT	3 NT	3NT	NT	ONT	ONT	NT	NT	EST_HUMAN	EST_HUMAN		EST HUMAN	EST HUMAN	Z	3	EST HUMAN	N.	3 3	
translocator), member 5 (SLC25A5), nuclear gene encoding mitochondnal protein, mixture	Homo sapiens solute carrier family 25 (mitochondrial carrier; adenine nucleotide	translocator), member 5 (SLC25A5), nuclear gene encoding mitochondnal protein, ninvex	Homo saniens solute carrier family 25 (mitochondrial carrier; adenine nucleolide	Homo sapiens germ-line DNA upstream of Juleppe Toward	H.sapiens DNA for endogenous retroviral like element		RC4-BT0311-141189-011-hu6 B10311 Holling septing Common (Fmrt), mRNA	WP:F15G9.4A CE18595;	WP:F15G9.4A CE18595; WP:F15G9.4A CE18595; Similar to	wn57h07.x1 NCI_CGAP_Lu19 Homo saplens cDNA done IMAGE:2449597 3' Similar to	wn57h07.x1 NCI_CGAP_L018 Hollio septime Cont.	2v90c05.r1 Soares Ninnwird 31 Nino septeme contact the IMAGE:2449597 3' similar to	Human calcum ruspingin, prospring rusping cDNA clone IMAGE:767048 5	Human Calcular depositions to the school binding protein (PLA2) mRNA, complete cds	Homo sapiens utiliscriptori i asceri i i i i i i i i i i i i i i i i i i	Homo sapiens denscription factor NRF (NRF), mRNA	Human transposorialize decision, Partier (NRF), mRNA	Homo sapiens 265 protesason partial	Homo sabiens 200 picusascrito associated pad1 homolog (POH1) mRNA	Novel human gene mapping to store associated pad1 homolog (POH1) mRNA	Novel human gene mapping to chomosome 22	UI-H-BI I-Bullica-1 I-G-Cus I I Chomosome 22	11 P. III of NCI CGAP Sub3 Homo sapiens cDNA clone IMAGE:2717108 3	UI-H-BI1-adm-a-11-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2777 100 3	wx09c09.x1 NCI_CGAP_Gas4 Homo sapiens culvo colis	wx09c09.x1 NCI_CGAP_Gas4 Homo sapiens CUNA Clone IMAGE: 2543152 3	•	Homo sapiens glypican 4 (GPC4) mRNA	hz24a09.x1 NCI_CGAP_GC6 Homo sapiens CUNA CIOIII IIIVAGE: CERTIFICE CONTROL OF THE CONTROL OF TH	Homo saplens mRNA for KIAA1513 protein, partial Cos	1321	Homo sapiens rabb G i Fase acurating Processing Process

4829

9937

0.8

8.00E-67

M78158.1

EST\_HUMAN

HHCPN31 similar to L1 repetitive element

EST01750 Subtracted Hippocampus, Stratagene (cat. #936205) Homo sapiens cDNA clone

yz27g12.r1 Soares_multiple_sclerosis_2NbHMSP Homo sapiens cDNA clone IM 5' similar to SW:H2B1_TIGCA P35068 HISTONE H2B.1/H2B.2. [2] PIR:B56612	1939 7056 12249 0.8 3.00E-66 N55323.1 EST_HUMAN 5' similar to SW:H2B1_TIGCA P35068 HISTONE H
HMSP Homo sapiens cDNA clone IMAGE:284326	HMSP Homo sapiens cDNA clone IMAGE:284326
TONE H2B.1/H2B.2. [2] PIR:B56612 ;	FONE H2B.1/H2B.2. [2] PIR:B56612 ;

Table 4

1939	7056	12249	0.8	3.00E-66 N55323.1	N55323.1	EST_HUMAN	yz27g12.r1 Soares_multiple_sclerosis_2NbHMSP Homo saplens cDNA clone IMAGE:284326 5' similar to SW:H2B1_TIGCA P35068 HISTONE H2B.1/H2B.2. [2] PIR:B56612;
1939	7056	12250	0.8	3.00E-66 N55323.1	N55323.1	EST_HUMAN	yz27g12.r1 Soares_multiple_sclerosis_2NbHMSP Homo sapiens cDNA clone IMAGE:284326 5' similar to SW:H2B1_TIGCA P35068 HISTONE H2B.1/H2B.2. [2] PIR:B56612;
1939	7056	12251	0.8	3.00E-66 N55323.1	N55323.1	EST_HUMAN	yz27g12.r1 Soares_multiple_sclerosis_2NbHMSP Homo sapiens cDNA clone IMAGE:284326 5' similar to SW:H2B1_TIGCA P35068 HISTONE H2B.1/H2B.2. [2] PIR:B56612;
3079	8230	13329	5.5	3.00E-66	7662223 NT	NT	Homo saplens KIAA0649 gene product (KIAA0649), mRNA
45	5255	10369	1.0	2.00€-66	7657334 NT	TN	Homo saplens Misshapen/NIK-related kinase (MINK), mRNA
45	5255	10370	1.0	2.00E-66	7657334 NT	NT	Homo sapiens Misshapen/NIK-related kinase (MINK), mRNA
							Homo saplens origin recognition complex, subunit 5 (yeast homolog)-like (ORC5L) mRNA,
416	5205	10306	0.9	2.00E-66	4505524 NT	NT	and translated products
416	5205	10307	0.9	2.00E-66	4505524 NT	NT	Homo sapiens origin recognition complex, subunit 5 (yeast homolog)-like (ORC5L) mRNA, and translated products
1784	6904	12092	0.7	2.00E-66	2.00E-66 AL163301.2	NT	Homo saplens chromosome 21 segment HS21C101
2944	8095	13201	1.0	2.00E-66 X65859.1	X65859.1	NT	H.sapiens pseudogene for the low affinity IL-8 receptor
3975	9107	14189	0.9	2.00E-66	2.00E-66 AF108389.1	NT	Homo sapiens sodium/calcium exchanger isoform NaCa3 (NCX1) mRNA, complete cds
4556	9674	14765	12.7	2.00E-66	2.00E-66 AJ133267.2	NT	Homo sapiens HLA-B gene for human leucocyte antigen B
4556	9674	14766	12.7	2.00E-66	2.00E-66 AJ133267.2	NT .	Homo sapiens HLA-B gene for human leucocyte antigen B

2779

2.4

6.00E-67 7.00E-67

X68968.1

AW162232.1

EST\_HUMAN

PRECURSOR (HUMAN);

au75d02.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782083 3'

Homo sapiens inositol 1,3,4-triphosphate 5/6 kinase (ITPK1), mRNA Homo sapiens inositol 1,3,4-triphosphate 5/6 kinase (ITPK1), mRNA

zh56b05.r1 Soares\_fetal\_liver\_spleen\_1NFLS\_S1 Homo sapiens cDNA clone

zh56b05.r1 Soares\_fetal\_liver\_spleen\_1NFLS\_S1 Homo sapiens cDNA clone

similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL

1252

5930 6381

11079

1.2

6.00E-67 6.00E-67

Y14320.1 Z17227.1

LN 33

Homo sapiens mRNA for transmebrane receptor protein Homo sapiens PMP69 gene, exons 3,4,5,6 & 7

Homo sapiens retinoblastoma 1 (including osteosarcoma) (RB1) mRNA

H.sapiens mRNA for acetyl-CoA carboxylase

6.00E-67

4506434 NT

11540 13388

547 778

1988 1988 1535

6661

7103

7103

12305 12306 11829

1.0

7.00E-67

7657243 NT 7657243|NT

7.00E-67

7.00E-67

W85947.1

EST\_HUMAN

IMAGE:416049 5'

1360

6488

11654

-

7.00E-67 7.00E-67

AA383416.1

EST\_HUMAN

protein, cosmid ZK353

376

5582

10716

2.1

AW162232.1

EST\_HUMAN

au75d02.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782083 3' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);

EST96812 Testis I Homo sapiens cDNA 5' end similar to similar to C. elegans hypothetical

1535

6661

11828

5

7.00E-67

W85947.1

EST\_HUMAN

IMAGE:416049 5'

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											1	17				7 AA625755.1	_1	7 BE303037.1	BE303037.1	AF167460.1		BE348354.1	_	AWAR9159 1	_		3	AF009660.1			AL 103201.2	AL 100201.2	1 1633		
	AF231919.1	AF231919.1	AF231919.1	AF231919.1	AA304324.1	AA304324.1	AA304324.1	AA304324.1	AW503842.1	AA209456.1	AA209456.1	4502		B535.1	300.2	5755.1	4758795	037.1	037.1	460.1		354.1		159.1		2		8	4507848 NT	7657020 NT	7857020			4507332 NT	4507332 NT
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	Homo sapiens chromosome 21 unknown	Homo sapiens chromosome 21 unknown	Homo sapiens chromosome 21 ulivioni	Homo saplens chromosome 21 disknown	EST17103 Aorta endouleilai ceils, ilvi	EST17103 Aona endourellar losis, TNE alpha-treated Homo sapiens cDNA 5' end	EST17103 Aoria endominia cella, trus	EST17103 Aorta endothelial cells, INF a	TH-BN	similar to SW:SAV_SULAC Q07590 SAV PROTEIN:	similar to SW:SAV_SULAC GW 350 ST 1 1000000 Sapiens cDNA clone IMAGE:648163 5 2082h10.r1 Stratagene hNT neuron (#837233) Homo sapiens cDNA clone IMAGE:648163 5	zq82h10.r1 Stratagene hNT neuron (#937	mo sapi	zv92g09.r1 Soares Nimmer (AA) precursor protein (protease nexin-ii, Alzheimer disease)	Homo sapiens chromosome 21 segment to CDNA clone IMAGE:767296 5	zu91g01.s1 Soares tesus NHI Huilo sa	mo sapi	TR:094892 O94892 KIAA0798 PRO I EIN	TR:094892 094892 KIAAU/96 FRO I EIN ba72g05.y1 NIH_MGC_20 Homo sapiens	ba72g05.y1 NIH_MGC_20 Homo saplens	Homo sapiens double stranded KNA active	WP:F23H11.9 CEU9017.  QV4-ST0234-181189-037-105 ST0234 Homo sapiens cDNA	hw16g09.x1 NCI_CGAP_Lu24 Homo sapie	MR3-SN0066-040500-008-f01 SN0066 Homo Sapielis Colv.	RC4-BT0311-141199-011-h06 BT0311 Homo Sapisits COVE	EST37903 Embryo, 9 week Homo saplens	xm02d11.r1 Soares adult brain N2b4HB55Y	Homo sapiens T cell receptor beta locus, is	Homo saplens ubiquitin specific protease	Homo saplens DKFZp434P211 protein (UNI	Homo sapiens DKFZp434P211 protein (UKFZP434F211) mRNA	Homo sapiens chromosome 21 segment Ho	Homo saplens chromosome 21 segment nozi Coo.	Homo sapiens Synapsin III (SYN3) mRNA, a	Homo sapiens Synapsin III (SYN3) mRNA, a
	Jiens ch	iens ch	iens chi	iens chi	Aorta	Aona	Aorta e	Aorta e	-alb-c-	W.SAV	W:SAV	Stratas	ens amy	Soares	ens chro	Soares	Stan Stife	09489	NH 99489	NH NH	ns doub	4-18118	NO C	6-04050	-141199	mbryo,	oares a	18 T 08	s ublqui	8 DKFZ	S DKFZ	s chrom	s chrom	s Synap	Synap
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		١				s cDN	SCON	SCDN	s cDN/	₩ ₩	clone	clone		i, Alzh	:7672		plans cDNA clone IMAGE:745392 3	GTP-binding protein 1 (DRG1), mRNA	)76 5' s	76 5' s		gene, e		83136	I		e IMA		CBBV7S3A2 to TCRBV12S2 region	퀽			١		
						Inha-treated Homo sapiens cDNA 5' end	15' enc	cha-treated Homo sapiens cDNA 5' end	nha-treated Homo sapiens cDNA 5' end	GE:30	IMAGE	MAGE		eimer d	96 5'		3	RNA	CDNA clone IMAGE:2905976 5' similar to	cDNA clone IMAGE:2905976 5' similar to		no sapiens cDNA tod cortain kinase (PKR) gene, exons 2a, 2, 3,		no sapiena cono IMAGE:3183136 3' similar to			Homo saptens cDNA clone IMAGE: 10, 2000	16.167	Ց	ž				,	6
						ľ				78924	::64816	233) Homo sapiens cDNA cione IMAGE:648163 3		lisease)					0	°		a, 2, 3,		ar to				1. 2.2. 2.0.							
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Impani X I NOI COME DITES FOR Supreme Come Come Come Come Come Come Come C	EST HOMAN	7.00E-70 AI497807.1	7.00E-70	0.7	12079	6892	1771
Homo sapiens DGV-I mixNA, 3' end	Ž	L77566.1	8.00E-70	2.2	14486		4277
nc13d12.rt NCI_CGAP_PTI Flomo sapiens culva Civile IMPAGE. 1000020	EST HUMAN	٠.	8.00E-70	0.6	12597	7939	2284
Rattus norvegicus brain specific conacun-binoring protein con actinity, per usi cos	1	AF053768.1	1.00E-69	0.9	11977		1675
ZW/1802.71 Soares tesus NHI HOMO Sapiens CUIVA Come improve to rock of	EST HUMAN	2.00E-69   AA431157.1	2.00E-69	2.7		7964	2813
601109444F1 NIH MIGC To Floring Sapiens COVA Good MAGE: 781682 5		2.00E-69 BE257857.1	2.00E-69	1.2	12148	0969	1842
Homo saplens KIAA0553 protein gene, complete cds; and alphalib protein gene, partial cds		AF160252.1	2.00E-69	1.7	10703	5566	398
Homo sapiens KIAA0553 protein gene, complete cds; and alphalib protein gene, partial cds	N N	AF160252.1	2.00⊑-69	1.7	10702	5566	398
Homo sapiens KIAA0553 protein gene, complete cds; and alphallb protein gene, partial cds	N <sub>T</sub>	AF160252.1	2.00E-69	1.0	10703	5566	124
Homo sapiens KIAA0553 protein gene, complete cds; and alphaltb protein gene, partial cds	Z	AF160252.1	2.00E-69	1.0	10702	5566	124
wh66g08.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2385/383	EST_HUMAN	AI765888.1	ł ł	0.9	14206	9122	3990
	3	5729910	3.00E-69	0.9		7428	2325
yd08a02.r1 Soares infant brain 1NIB Homo sapiens CUNA CIONE MANGE. 44000 3 SILINIA WAS SP.A48836 A48836 SPEGF III=EGF REPEAT-CONTAINING FIBROPELLIN-LIKE PROTEIN SEA URCHIN:	EST_HUMAN	T80514.1	3.00E-69	1.4		6662	1536
Homo sapiens Smad- and Oil-interacting zinc tinger protein mixture, parvai cus	NT	AF221712.1	3.00E-69	0.6	10872	5754	596
601110371F1 NIH MGC 16 Homo sapiens CDNA Gone IMAGE 3001045	EST HUMAN	BE258012.1	3.00E-69	1.0	10719	5586	380
wm26h11x1 NCI CGAP Ut4 Homo sapiens cUNA cione IMAGE:2351353 5		AI873630.1		0.6		5673	509
Homo saplens RiBliR gene (parual), exon 12	ZT	AJ237744.1	8.00E-69	1.2		2 2 2	3346
Homo sapiens y-rat munne sarcoma virai oncogene nomolog o i (orxxx) illivixo	ZNT	4757867 NT	9.00E-69	0.8	14250	9165	4037
Homo sapiens 26S proteasome-associated pad1 nomolog (FUT I) IIIKNA	ONT	5031980 NT	9.00E-69	0.6	11305	6151	91
Homo sapiens 26S proteasome-associated pad1 nomolog (FUR1) mixito	ONT	5031980 NT	9.00⊑-69	0.6	11304	6151	101 101 1
Homo sapiens pre-B-cell colony-enhancing factor (PBEF) mixing	6NT	5031976	9.00E-69	0.6	10330	5228	19
Homo sapiens pre-B-cell colony-enhancing factor (recr) lilings	6NT	5031976	9.00E-69	0.6	10329	5228	<u>1</u>
al47g12.s1 Soares NFL T GBC S1 Homo sapiens CDNA Clone IMAGE: 1400010 3	EST_HUMAN	AA897343.1		1.0	15130	10059	4954
	EST_HUMAN	BE296032.1	1.00E-68	1.0	14149	9062 2	3928
UI-H-Bi3-aik-f-01-0-UI.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2737272 3'	EST_HUMAN	AW451832.1	1.00E-68	1.0	13018	7812	2728
Homo sapiens PRO2014 mRNA, complete cos	NT	AF119860.1	1.00E-68	1.3	12527	7314	2205
Homo sapiens PRO2014 mRNA, complete cos	Z	AF119860.1	1.00E-68	1.3	12526	7314	2205
QV4-S10234-181199-037-00 S10234 nonio sapieris com	EST HUMAN	AW816405.1	1.00E-68	3.2	10610	5479	293
Homo sapiens meningioma (disrupted in palanced translocation) i (wire), many	4	4505222	_	1.3	10405	5278	72
Homo sapiens gene for activin receptor type inc, complete cus		AB008681.1	2.00€-68	1.7	14793	9699	4583
Cricetulus longicaudatus mRNA for EF-1 alpha, complete cos	NT	D00522.1		12.3		7983	2832
Mus musculus G-protein coupled receptor GPR73 (Gpr73) mRNA, complete cas	NT	AF236082.1		5.6	13844	8750	
GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE, LIVER	SWISSPROT	P04406	4.00E-68	17.2		10007	_
Homo sapiens mRNA for KIAA1431 protein, partial cds	NT	5.00E-68 AB037852.1	5.00E-68	2.6	13362	8258	3108

T HUMAN T HUMAN T HUMAN	AW816405.1	5.00E-/1	1.4		מכופ	100
T HUMAN T HUMAN T HUMAN	7, 0000			14242	7	4030
T HUMAN T HUMAN T HUMAN	AF056322 1		1.3	12483	7272	2163
T HUMAN T HUMAN		1_	0.8		7669	2576
T_HUMAN T_HUMAN	Ş		Γ	12128	6937	1818
T_HUMAN T_HUMAN	7705404	6.00=-/1	1.0	12127	6937	1818
T_HUMAN T_HUMAN	200			Γ	Ţ	3717
T_HUMAN	BE244676.1	7.00E-71	0			
T HUMAN	AA594019.1	8.00E-71	0.6	12044	6866	1743
		9.00E-71	1.0	13722	8610	3469
	7476	1.00E-70	3.0		8491	3347
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NI (numan normassa myosii hoo 3 /5 nohaanida nrotain-diutamine-damma-	M69181.1	2.00E-70	4.0		9095	3983
HOMON	AW961822.1	2.00Ε-70	2.9	12654		2344
ECT373805 MAGE resequences, MAGG H		2.00E-70	2.9	12653	7446	2344
HUMAN			1.3		7378	2272
		2.000	0.0	17071	6831	1708
Homo sapiens chromosome 21 segment H			2 2	11680	1	1387
HUMAN	BE487311 1			1145/	Т	1167
	7661983 NT	2.00€-70	2 0.7	11456	Т	1167
	7661983 NT	300.70		08711	Г	100±
	23669			10801	Т	8
EST HUMAN  qx51h01.x1 NCI_CGAP_Pan1 Homo sapiens CDNA Gorie invasce	1		7 7	1000	2000	0)
yy07a10.r1 Soares melanocyte ZNDHM Homo sapiens culva Civile in Noc. 2702-20 cm. to SW:D3HI_RAT P29266 3-HYDROXYISOBUTYRATE DEHYDROGENASE PRECURSOR EST_HUMAN	N42161.1	2.00E-70	A. UI	10959	0683	67.
EST_HUMAN		2.00E-70 N42161.1	4.5	10958	5830	674
yy07a10.r1 Soares melanocyte 2NbHM Homo saplans cUNA Clone IMAGE. (1932 ) SIIIIIIIII to SW:D3HI_RAT P29266 3-HYDROXYISOBUTYRATE DEHYDROGENASE PRECURSOR	-					
EST HUMAN TACCABIOSES OF EGO CO. T.		3.00E-70 BE071796.1	0.9	11865	6697	1571
BC0 BT0522-071290-011-a12 BT0522 Hom		3.00E-70 B	0.9	11864	6697	1571
	52307		0.7	12801	7945	2505
		5.00E-70	0.7	12800	7945	2505
	8923899 N I	6.00E-70	1.0	12764	7560	2461
	M30938.1		1.4	12406	7201	2090
	4502166	6.00E-70	0.7	11162	6002	853
	4757723 NI	7.00€-70	3.9	14339	9258	4132
	5031668 N1	7.00E-70	1.3		7131	2018
T HUMAN ZITSNU4.TI NCI CONT GOOT TO INCIDENTAL	AA282955.1 E		0.6	12192	7000	1888
HOWAIN		7.00E-70 A	0.7	12080	6892	1771

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	211	1122	4023	4023	4023	401	401	4370	3681	3597	3597	3546	3546	3457	2661	2036	2036	1317	1004	926	622	1210	4913	4330	2857	2850	2850	347	347	97	
F	$\neg$	Т	3 9151	3 9151	9151	5569	5569	9492	П		8736			$\neg$	Т	_	7	7	$\neg$	_1		_	,	$\neg$	8008	801	8 9	5528	5528	5304	
ſ	10528	٦	14234	1 14233	14232	10706	10705	14582		13831	13830		13788	П		П		$\neg$	П	$\Box$	10903	11500	15099	14541	13107	13099	13098	10656	10655	10431	
			5.2	5.2	5.2	1.2	1.2	9.5		0.9	0.9	4.7	4.7	1.2	1.8	1.2	1.2	3.8	1.4	0.7	0.7	0.9	5.0	3.4	1.6	0.9	0.9	39.0	39.0	<u>:</u>	
	4.00E-72	5.00E-72	7.00E-72	7.00E-72	7.00E-72	9.00E-72	9.00E-72	1.000-7	1.00E-71	1.00E-71	1.00E-71	1.00∈-71	1.00E-71	1.00E-71	1.00E-71	1.00E-71	1.00E-71	1.00E-71	1.00E-71	1.00E-71	1.00E-71	2.00E-71	4.00E-71	4.00E-71	4.00E-71	4.00E-71	4.00E-71	4.00E-71	4.00E-71	4.00E-71	
!	2 8922990 NT	L11645.1	2 4501866 NT	2 4501866 NT	2 4501866	2 AI857635.1	2 AI857635.1	020770.1			BE122850.1	AF246219.1	AF246219.1		7657153	AB017007.1	AB017007.1	AF012872.1			AI077927	AL 163206.2	709/69/	AF056322.1	4505880 NT	7705414 NT	7705414 NT	AF157626.1	AF157626.1	4507592 NT	
	NT	NT	S NT	6 NT	6 NT	EST_HUMAN	EST_HUMAN		2	EST_HUMAN	EST_HUMAN	Ž	2	N.		Z	Z	N	Z	_		2		Z	Z	Z	2	Z	N	NT.	
	Homo sapiens hypothetical protein Full 1310 (Full 1310), Illinos	A 1 =	protein, mRNA	protein, mRNA  Homo sanions aconitase 2 mitochondrial (ACO2), nuclear gene encoding mitocondnal	protein, mRNA  Homo sapiens aconitase 2, mitochondrial (ACO2), nuclear gene encoding mitocondrial	TR:086705 086705 HYPOTHETICAL 38.6 KD PROTEIN. :contains Alu repetitive element:	TR: 086705 O86705-HYPOTHETICAL 38.6 KD PROTEIN.; contains Alu repetitive element;	Services of the services of th	Human mRNA for KIAA0045 gene, complete cds	Sapiens cDNA clone 02 15 5's finillar to Homo sapiens chromosome 19	sapiens cDNA clone 02 15 5' similar to Homo sapiens chromosome 19	Homo sapiens Strace protein surase Strate times, Some Upregulated Transcripts Homo	CHARLE PROMIT MOSES SNAK TRNA COmplete cds	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds	Homo saptens natry/ennancer-or-sput related with the street media.	Homo sapiens PMOZE to tilixivs, partial was	Homo Sapiens P Maccing Charles Code	Homo sapiens priospriadry invisiva + ramage cov y	Homo sapiells disabled a gene, exerts a since of the sapielle constitution	Homo sapiens neuronal cell deadineriate process (Complete cds	oy15e03.\$1 Soares_senescent_indobless=_runk; from expetitive element; IMAGE:1665916 3' similar to contains LOR1.b2 LOR1 repetitive element;	Torrio sapieris Gilorioscita e sopriscita Namo sapiens cDNA cione	Tionio sapiala pagara ising 21 sagment HS21C006	Long splens gritative heme-binding protein (SOUL), mRNA	Homo sapiens plastillinger (LEG) till ag (SP100) mRNA, complete cds	Homo sapiens rook i protein (1808), image	Homo sapiens ricox i protein (100x1), many	Equus caballus glyceralically de orphisophians con 1 and 1	Equus Cabailus giyodialus i jos o priosphate dehydrogenase mRNA, partial cds	Homo sapiens tumor necrosis factor (ligano) supernamuly, member to (1715) 1971-1971-1971-1971-1971-1971-1971-1971	This series to This series and This series are the series and the series are the series and the series are the

			1.005-/4	1.0	13539	8431	3286	7
Homo sapiens chromosome 21 segment HS21CU46	NT	_	1.000		Γ	7023	1906	
Homo sapiens NKG2D gene, exon 10	NT	A 100168	0.000	Γ			723	$\neg$
Homo saplens CD39-like 4 (CD39E4) IIINVA	NT		8 nn= 74	T	12300	Г	2073	_
	EST HUMAN	AW054828.1	9.005-74	<u>.</u>	200			-т
ws60d04.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2501373 3 Sittlies W		Ar 190045.	1.005-13	0.9	12739	7533	2434	Т
Gallus gallus Dach2 protein (Dach2) mRNA, complete cds	NI Z		2.00E-73	1.0	13754	8645	3503	
transcript variant 3, mRNA	1					$\neg$		Т
transcript variant 3, mknx Long parkinson disease (autosomal recessive, Juvenile) 2, parkin (PARK2),	NI	7669539 NT	2.00€-73	1.0	13753	8645	3503	
ISBASB (autosom				9	ا د د	0820	3144	T
Homo sapiens caspase o, apopusis clause of the property of the	NT	4502582 NT		3.5	13401	303	2251	T
Human beta globin region of cilibratic related cyctains professe (CASP8) mRNA	NT	U01317.1	2.00E-73	1 6		200	2081	1
L	EST HUMAN	AW898081.1		0.5		100	900	Т
Homo sapiens BASS ( GASS ) IIII WELL TO		AF139897.1	_	0.6	11143		124/	Т
	EST_HUMAN	F00548.1	3.00E-73	1 4	11525	6376		7
HSB10E082 STRATAGENE Human skeletal muscle cDNA library, cat. #936215. Homo	EST_HUMAN	F00548.1	3.00€-73	1.4	11534	6376	1247	
TOB TORTOR OF TORTOR								Т
LICENCEDES STRATAGENE Human skeletal muscle cDNA library, cat. #936215. Homo	N	AL163216.2	6.00E-73	0.8		55 68	152	T
Homo sapiens chromosome 21 segment HS21C018	17		_	1.6		9970	4863	٦
Homo saplens chromosome 21 segment HS21C082	NT.			=	13515	8408	3261	丁
Homo sapiens chromosome 21 segment HS21CUU5	5			0.8	11407	6255	1118	٦
		73290 1000			11695	6526	1399	
	EST HUMAN				11314	6161	1022	Γ
TR: Q59050 Q59050 HYPOTHETICAL PROTEIN MATERIA (IMAGE: 1639743 3)	EST_HUMAN	AW071755.1	a 00E-73	>				7
			SUUCE-19 WARREN CO.	1.0	15278	10198	5102	٦
	EST HUMAN	١	9.00E-73 AW867850 1	1.2	11745	6570	1443	П
MR0-CT0063-071099-002-h11 CT0063 Homo sapiens cDNA	EST HUMAN		1.00E-72	0.9	12344	7143	2030	
GIOUCE O CONTRACTOR OF THE STATE OF THE STAT					1	1		T
wb318ub.x1 NCL CGA CONTROL NbHPA Homo sapiens cDNA clone IMAGE:1387395	EST HUMAN		3.00E-72 AI654337.1	0.9	15032	8 6 3 6	4835	T
splice junction) [human, precursor B-cell line REH, mRNA Parual, 211 mg	NT	S77589.1	3.00E-72 S	25	13977		3	$\neg$
TCR V delta 2-C alpha =T-cell receptor delta and C alpha fusion gene (alternatively spinors)		10400760	3.00E-72	2.6	13495	838 8	3241	7
Homo sapiens hypothetical protein FLJ20585 (FLJ20585), mRNA	NT NT	AJ229043.1		L	13291	8189	3037	
Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22, segment or				1	1421	62/5	1139	T
complete cds	NT.	U16306.1	3 00E-72 U		3			Ţ
Human chondroitin suffate proteoglycan versican V0 splice-variant precursor pepude in the control of the contro		UJBJUB. I	3.00E-72 U	2.1	11426	6275	1139	
complete cds	Ā					-	$\neg$	T
Himan chandrollin sulfate proteoglycan versican V0 spilce-variant precursor peptide mkna,	EST HOWAIN		3.00E-72 AA723823.1	4.9		6033 1	85	7
ahegane st Soares testis NHT Homo sapiens cDNA clone 1310290 3'		]			l			

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3203	2849	2849	5006	5006	4512	4457	3973	3483	3052	2377	2085	2027	2027	1919	1919		834	278	2669	887	4826	3652	3652	2834	2834	2268	2268	1609	1106
8351	8000	8000	10108	10108	9631		9105	$\neg$		٦	$\neg$	7140	7140	7036	7036		5983	5465	7756	6035	9934	8791	8791	7985	7985	7374	7374	6736	6244
	13097	13096	15177	15176	14724	14674	14187	13736	13304	12681	12402	12341	12340	12225	12224		11143	10595		11193	15024	13885	13884	13086	13085	12583	12582	11905	11397
2.2	:	1.1	3.8	ა. 8	0.8	1.6	1.3	0.9	4.4	1.0	1.2	1.6	1.6	0.9	0.9		1.7	0.6	5.2	0.9	1.2	2.6	2.6	1.4	1.4	3.6	3.6	1.0	0.9
3.00E-74	3.00E-74	3.00E-74	4.00E-74	4.00E-74	4.00E-74	4.00E-74	4.00E-74	4.00E-74	4.00E-74	4.00E-74	4.00E-74	4.00E-74	4.00E-74	4.00E-74	4.00E-74		4.00E-74	4.00E-74	5.00E-74	5.00E-74	6.00E-74	6.00E-74	6.00E-74	6.00E-74	6.00E-74	6.00E-74	6.00E-74	6.00E-74	6.00E-74
AI796960.1	AA234789.1	AA234789.1	4504326 NT	4504326 NT	Z17227.1	7662183	4.00E-74 AL163247.2	AL163210.2		AJ006976.1	AB032994.1		4506192 NT	AB02689	AB026898.1		4.00E-74 AB028942.1	4.00E-74 D87675.1	5.00E-74 AW362756.1	AW020986.1	H09912.1	6.00E-74 BE048846.1	6.00E-74  BE048846.1	6.00E-74 AW014039.1	AW014039.1	6.00E-74 BE388260.1	6.00E-74 BE388260.1	AW263177.1	AF109907.1
EST_HUMAN	EST_HUMAN	EST_HUMAN	6 NT	6 NT	NT		NT	NT	NT	NT	NT	2 NT	2 NT	Z	2		NT NT	N,	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT
TR:Q13537 Q13537 SIMILAR TO POGO ELEMENT.;	27/8b10,r1 Soares_NhHMPU_S1 Homo sapiens curva done invade: 009499 3 Similiar to gb:X04106_cds1 CALCIUM-DEPENDENT PROTEASE, SMALL (HUMAN);	gb:X04106_cds1 CALCIUM-DEPENDENT PROTEASE, SMALL (HUMAN);	Homo sapiens hydroxyacyi-Coenzyme A dehydrogenase/3-ketoacyi-Coenzyme A thiolase/enoyi-Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB) mRNA	Homo sapiens hydroxyacyi-Coenzyme A dehydrogenase/3-ketoacyi-Coenzyme A thiolase/enoyi-Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB) mRNA	Homo sapiens mRNA for transmedrane receptor protein	Homo sapiens KIAA0569 gene product (KIAAU569), mknA	Homo sapiens chromosome 21 segment HS21CU47	Homo sapiens chromosome 21 segment HS21C010		Homo sapiens PLP gene	Homo sapiens mRNA for KIAA1168 protein, partial cds	Homo sapiens proteasome (prosome, macropain) subunit, beta type, 1 (PSMB1) mkna	Homo sapiens proteasome (prosome, macropain) subunit, bela type, 1 (Pomb1) mkink	ORCTL4 genes, complete cds)	URC 114 genes, complete way	Homo saplens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORC1L3,	Homo sapiens mRNA for KIAA1019 protein, partial cos	Homo sapiens DNA for amyloid precursor protein, complete cas	PM0-CT0289-271099-001-h07 CT0289 Homo sapiens cUNA	df17c09.y1 Morton Fetal Cochlea Homo sapiens cDNA cone IMAGE: 2483/04 3	ym05g03.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:46895 5	hr54e11.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:31323323	hr54e11.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3132332 3	UI-H-BI0-aah-h-03-0-UI.s1 NCI_CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2709365 3'	UI-H-BI0-aah-h-03-0-UI.s1 NCI_CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2709365 3'	601283521F1 NIH_MGC_44 Homo sapiens CUNA Cone IMAGE: 3000433 3	601283521F1 NIH MGC 44 Homo sapiens CUNA Cone IMAGE 3605453 5	xn78g07.x1 Soares_NFL_T_GBC_S1 Homo sapiens cUNA cione invade: 2700000	Homo sapiens S164 gene, partial cds; PS1 and hypothetical protein genes, complete cds; and S171 gene, partial cds

				ſ		1 6131	98/
Homo sapiens nino scillo processo .	NT	5 AF157623.1	3.00E-75		T	Т	900
Politic salveils (1110) Scrine prolesse (PRSS11) gene, complete cds	NT	5 AF157623.1	3.00E-75	٦	T	Т	
Idama carione HTRA serine protease (F	EST TOWN	5 BE409464.1	4.00E-75	4.7	1	Т	2818
601303866F1 NIH MGC 21 Homo sapi	LO LONG		4.00E-/5	0.5	12030	П	1728
CMC-NN0057-150400-335-a11 NN0057 Homo saplens CUNA	LOT HIMAN	_	4.005-75	1.2	7		451
vx90h08.r1 Soares melanocyte 2NbHM Homo sapiens cDNA Clone INVAGE. 2000000	FST HUMAN	_	4.00E-75		10435	5310	107
Q15377 Y-CHROMUSUME KINA RECOGNITION  QV1-8T0632-210200-079-e02 BT0632 Homo sapiens cDNA	EST HUMAN		6.00E-75	0.9	<u></u>	8 10223	5128
a)28c06.s1 Soares tests NHT Homo sapiens cDNA clone 1391626 3' similar to TR:Q15377	EST_HUMAN	AI817415.1	6.00E-75	0.9	12587	7379	2273
wk38a08.x1 NCI_CGAP_PrZZ Homo sapiens color color inscribed (HUMAN);			9.005	1.0		7697	2607
Homo sapiens DNA cytosine o meuryllianistic and clone IMAGE 2417654 3' similar to	N		8 00E-75	1	10200	L	5112
Homo sapiens DCRR1 mkiva, parual cus	NT.		1 00E-74	3 6	Τ	_	4170
WP:B0511.12 CE17351;	EST HUMAN	BE467769.1	1 00E-74	5		$\neg$	
hz/3h08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3213653 3 Similar to	EOI TOWN	1.00E-74 BE083080.1	1.00E-74	0.9	14188	$\neg$	3974
RC2-BT0642-270300-019-f06 BT0642 Homo sapiens cDNA	N- NIMAN	1.00E-74 AL163268.2	1.00E-74	4.6	╗	Т	3887
Long spriene chromosome 21 segment HS21C068		4/5869/	1.00E-74	6.0	13354	╗	3100
Homo saniens mannosidase, alpha, class 2A, member 1 (MAN2A1), mRNA	2	AB00205	1.00E-74	2.2	T	$\neg$	2179
Long copiese DNA for Hirman P2XM, complete cds	2		1.00E-74	0.7	П	6128	983
Homo sapiens chromosome 21 segment HS21C046		4508020	1.00E-74	1.4	10863	5746	58
Homo sariens zinc finger protein 259 (ZNF259) mRNA		XU2344.	1.00E-/4	0.9	10784	5661	497
Homo sapiens beta 2 gene	NT I		1.005-/4	1,2	10779	5656	491
Homo sapiens hypothetical protein FLJ11026 (FLJ11026), mRNA	`L-	AW6164U3.1	1.00E-74	1.2	10640	5515	32
OV4-ST0234-181199-037-f05 ST0234 Homo saplens cDNA	EST WINAN	7007004	1.00E-74	1.0	10373	5257	47
Homo sapiens Misshapen/NIK-related kinase (MINK), mRNA	TIN	J02953.1	2.00E-74	1.9	15120	10048	4942
Human platelet glycoprotein lib mRNA, 3' end	1	AL3DOUBL.	2.00E-74	2.0	15115	10043	4937
Novel human gene mapping to chomosome 22	NT T	ALSOSUSZ. I	2.00E-74	2.0	15114	10043	4937
Novel human gene mapping to chomosome 22	-	AI 355000 1	2.00E-74	=	12855	7652	2558
PT2.1 15 G11.r tumor2 Homo sapiens cDNA 3'	DOT HIMAN	4885198	2.00E-74	=	11873	6703	1577
onconent homolog) (EGFR) mRNA	4						
oncogene homolog) (EGFR) mRNA  Longo saniens epidermal growth factor receptor (avian erythroblastic leukemia viral (v-erb-b)	NT	4885198 NT	2.00E-74	1.1	11872	6703	1577
tor rec	EST_HUMAN	AI950528.1	2.00€-74	1.2	11518	6354	1224
wx51e07.x1 NCI_CGAP_Lu28 Homo sapiens cunA cione invocatione element;			2.000:14	1.6	11448	6293	1158
Human endogenous retrovirus HERV-K-14/U	NT	AF020092.1	_	126.2	11247	6089	942
Homo sapiens glyceraldehyde-3-phosphate cenyurogeniase (Cr. 2).	2		2.000.74	126.2	11246	6089	942
Homo sapiens glyceraldehyde-3-phosphate denydrogeniase (CAPD) mRNA	NT	8	- 1 -	4.0	1309/	8000	3703
9b:X04106_cds1 CALCIUM-DEPENDENT PROTEASE, SMALL (HUMAN);	EST HUMAN	AA234789.1		, P			
gb:x04106_cds1 CALCIUM-DEPENDEN I FIXO LENGTH OF THE STATE STATES AND STATES	EST_HUMAN	AA234789.1	3.00Ε-74	4.8	13096	800	3703
Sons also MAGE RE9499 5' similar to							

	5.00E-76	1.3	12207		1899
		ن.:			
			12206	7017	1899
			C0771	Г	1899
	_	3		Т	1214
BE396253.1 EST_HUMAN		6.7		Т	
)7184	7.00E-76	4.3 3	14484	£	4275
	1.005	1.0	14403	9400	4275
4507184 NT	7 005-76	<u>-</u> س	3		
	7.000	=	RECEL	Т	3293
4757915 Ni	7 005-76	:			
	1.000	-	1351	94¢/	3260
4505052 N		7.4	300	3	3,00
AF056490.1 NI		26	13507	200	37.0
5016092 N1	7.00E-76	1.4	11050	701	750
			3	92	2007
7706724 NT	8.00E-76	-	13135	9034	3000
4504374 NT	8.00E-76	0.6	11228	8070	3
4504374 NI	8.00E-76	0.6	11227	6070	923
	_	1.2		7466	2364
		9.0	10530	5407	214
		:0	10358	5248	38
		n			
A1652648.1 EST_HUMAN	9.00E-76 A	1.5	10357	5248	38
		0.4	131/6	7908	2916
52221.1 NT		3	37.76		223
		<u>.</u>	1 0 7 7 7 7	7361	2000
7662421 NI	3.00E-75	1.0	14547	9459	4336
		1.4	14291	9204	4077
		1.0	13563	<u>85</u>	330
	1	1.0	13562	8451	3306
		1.3	13409	<u>8</u>	3152
	3.00E-75 A	1.2	13243	8140	2988
	3.00E-75 A	1.0	12708	7501	2402
111 001 0014	3.00E-/5	1.3	12676	7475	2373
4307 034 NT	3.00E-75	==	12384	7177	2065
32	3.00E-75 A	0.7	12101	6915	1795
	1/1				
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L			1			5.00E-77	L	L	L	L		6.00E-77	6.00E-77	7.00E-77	7.00E-77	7.00E-77	7.000-77	7,005 77	1.000-76	4.000-76	3000	2005	2005-76	2.00E-76	2.00E-76	2.00E-76	2.00€-76	2.00E-76	2.00E-76	2.00€-76	2.00E-76	2,00E-76	2.00€-76	2.00€-76	2.00E-76	2.00E-76	3.00E-76	į
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		١		HUMAN							MAN NAN	HUMAN					HIMAN	HUMAN				HUMAN			AN N	VAN	3		1									
	Homo sapiens SET domain and mariner transposase fusion gene (SETMAK) MKNA	Homo sapiens SET domain and mariner transposase fusion gene (SE I MAN) INTOX	Homo sapiens villin-like (VILL), mRNA	DKFZp434G1728_r1 434 (synonym: htes3) Homo sapiens conva ddied on convergence	TOTIO Sapialis Co. Time report and the same services of the same service	itions poplone EGE-live repeats and discoldin I-like domains 3 (EDIL3), mRNA	Sis Sis	Homo sapiens cullin 1 (CUL1) mRNA	Homo sapiens disintegrin and metalloprotease domain 10 (ADAM10) mRNA	7 Homo sapiens glucokinase (GCK) gene, exon 2	qe77h12.x1 Soares_fetal_lung_NbHL19W Homo sapiens CUNA done imAGE: 17430000	ES ( 309023 NACOE 1636 quality 5, 177.00 177	POTROCOS ALACE Exceripances MAGE Homo sapiens cDNA	Homo saplens polymerase (RNA) II (UNA directed) polyperates = (==================================	Homo sapients porymerase (New York Standard Stan	POLRZE) mRNA	Zu91g01.s1 Soares testis NHT Homo sapiens cDNA clone IMAGE: /45392.3	RC2-BT0256-241099-011-f02 BT0256 Homo sapiens cDNA	Human mRNA for HMG-1, complete cds	Human mRNA for HMG-1, complete cds	Homo saplens EGF-like repeats and discoidin I-like domains 3 (Edito), Illinois	- 호	Homo sapiens peptide YY (PYY) mRNA	ŀ	SW:ITB5 HUMAN P18084 INTEGRIN BETA-5 SUBUNIT PRECURSOR:	SW:TB5_HUMAN P18084 INTEGRIN BETA-5 SUBUNIT PRECURSOR. : SW:TB5_HUMAN P18084 INTEGRIN BETA-5 SUBUNIT PRECURSOR. :	THE AGO ST Sogres testis NHT Home sapiens cDNA clone IMAGE:780986 3' similar to	OI EACTORY RECEPTOR-LIKE PROTEIN F5	Sob44 ed Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:701925 3	Long seniene GM2 gandloside activator protein (GM2A) mRNA	Long serviens GM2 ganglioside activator protein (GM2A) mRNA	Homo sapiens cAMP responsive element binding protein 1 (CREB1) mRNA	Homo sapiens clucadon (GCG) mRNA	Long soniene immunoglobulin (CD79A) binding protein 1 (IGBP1) mRNA	Liman mRNA for possible protein TPRDII, complete cds	Human mBNA for possible protein TPRDII, complete cds	Himan mena for possible protein TPRDII, complete cds	Homo sonions enkaryotic translation elongation factor 1 beta 2 (EEF1B2) mRNA

	2044	1414	3214			
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13374	12362	11717	134/3			
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i		COL TOWAR	- 1	FOT HUMAN		
Homo sapiens CGI-78 prosent (ECCC) CCT/1	Tigillo Sapiolo Cit. 1: Sample Constant mana	Homo eaniene CVP17 gene. 5' and	IBC3. BN/0052-170200-011-h01 BN0053 Homo saplens cDNA	ab:K00558 TUBULIN ALPHA-1 CHAIN (HUMAN);	W29c03.x1 NCL CGAP_Ut1 Homo sapiens cDNA clone IMAGE.2000000 3 SIIIIII 10	

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12813	15342	14761	14635	14462	13259	12700	11168	11167	10001	10587	10586	10354	10353	14866			14528	5	14527	14161	- 1	355	13560	12845	12844	12374	12362	11717	13473
1.5	2.9	2.0	14.7	3.0	2.8	1.2	1.7	1.7	6	0	0.6	1.0	1.0	3.6	;	3.5	6.0	00	0.9	1.3	8	90	0.9	0.7	0.7	1.0	0.8	0.6	6.9
5.00E-78	1.00E-77	1.00E-77	1.00E-77	1.00E-77	1.00E-77	1.00E-77	1.00E-77	1.00E-77	1.00	1 005-77	1.00E-77	1.006-//	1.00=-//	2.005-77	3	2.00E-77	2.005-77	2 005.77	2.00E-77	2.00E-77		- 1	2.00€-77	_	2.00E-77	2.00E-77	2.00E-77		3.00E-77
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EST_HUMAN	EST_HUMAN	22 NT	NT	99 N I	1	N	36 NT	NT		<u>66</u> NT	6NT	-	27	NT C	TOT HIMAN	8 NT		EST HUMAN	EST_HUMAN	EST_HUMAN		NT	NT	N <sub>1</sub>	N.T		N,	EST_HUMAN	EST_HUMAN
WP:Y48B6A.6 CE22121;	similar to CMYA5 Cardiomyopathy associated gene 5  basanos vs NIH MGC 10 Homo sapiens cDNA clone IMAGE:2900405 5' similar to	Homo sapiens breast cancer 1, early onset (BRCA1), transcript variant Brock i exults, illustrate the same state of the s	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment in	nonio sapialis conso promit (Economy) in		Homo sapiens 2.4-dienovi CoA reductase 1, mitochondrial (DECR1), mRNA	(APP), mRNA	(APP), mRNA  (APP), mRNA  (APP), mRNA  (APP), mRNA  (APP), mRNA  (APP), mRNA  (APP), mRNA	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-il, Aizheimer disease)	(APP), mRNA	(APP), mRNA	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease)		Homo saniens mRNA for KIAA1276 protein, partial cds	SW:RL29_HUMAN P47914 60S RIBOSOMAL PROTEIN L29. [1] ;contains element MSR1 repetitive element ;	aminotransferase 2) (GOT2), nuclear gene encoung filliodribitional protein, minor and protein for the same and	Homo sapiens glutamic-oxaloacetic transaminase 2, mitochondrial (aspartate	TR:065245 F21E10.7 PROTEIN.;	TR: 065245 065245 F21E10.7 PROTEIN. :	to SW:GAGZ_FIUWAN F 19204 NE 11304 1920 1920 1920 1930 1930 1930 1930 1930 1930 1930 193	ho43b05.x1 Soares_NFL_T_GBC_S1 Homo sapiens CUNA Gone IMAGE:3040 13 3 silling	n channel (ergs)		Homo sapiens mkNA for KIAA 14 to protein, perual cos			Homo sapiens CYPT/ gene, 5 etio	RC3-BN0053-170200-011-001 BN0003 F0110 sapielis CONS	gb:K00558 TUBULIN ALPHA-I CHAIN (HUMAN);

	2	AJ2/1408.1	2.00E-79	1.0	12463	П	2146
Homo saniens mRNA for Fas-associated factor, FAF1 (Faf1 gene)		4585803	2.00E-79	5.1	12421	1 7212	2101
Homo saniens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A), mRNA	NA THE		2.00E-/9	5.1	12420	1 7212	2101
Homo saniens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A), mRNA	Т.	ALOEOGOS NIL	2.005-78	1.5		9 6159	1019
മ		11522747	2,000.70	=	11217	Г	912
		i_	2 005 70		Γ	Г	618
601159415F2 NIH MGC 53 Homo sapiens cuna cione invade: 3311107 3	EST_HUMAN		200E-79	1 5	T	Т	4818
	NT	AF116627.1	3.00€-79	5	Т	+	3/2/
601192921F1 NIH MGC / noillo sapislis contractor	EST_HUMAN		3.00E-79	2.8	T	Т	375
Figure 1 Lines Thomas springs CDNA clone IMAGE:3536740 5		U09410.1	3.00€-79	1.4	Ī	Т	3060
Homo sapiens cell-lille sactoria chiorecter and sapiens are sapiens and sapiens and sapiens and sapiens are sapiens are sapiens are sapiens are sapien	N		3.00E-79	0.9	11265	6107	962
	17.	AF114400.1	3.00€-/9	1.4	10623	5494	310
	217		4.00E-79	=		8288	3139
and complete cds  Homo saplens hypothetical protein FLJ10283 (FLJ10283), mRNA	NI	AF08365	8.00E-79	1.7	15008	9915	4805
Homo sapiens procollagen C-proteinase enhancer protein (PCOLCE) gene, 5' ilanking region		Arossoss.	8.00E-78	1.7	15007	9915	4805
and complete cds	Z	\	200				
Indition 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,	2	D28476.1	8.00E-79	0.9	14602	╗	4391
Human manua for KiAA0045 gene, complete cds	N	D28476.1	8.00E-79	0.9	14601	$\neg$	4391
Human man for KIA AnnAs gene complete cds	2	AL163210.2	8.00E-79	1.2	13914	1	3682
Home series chromosome 21 segment HS21C010	1.	BEUUDOJ. I	9.00E-79	2.5	14963	9869	4758
RC2-BN0074-090300-014-c12 BN0074 Homo sapiens cDNA	DAMIN TO	77001240.		ia	12163	6978	1860
TR:E239140 E239140 SPALT PROTEIN:	EST HUMAN	AA601246 1		•		$\neg \neg$	
coldange NCI CGAP Phet Homo sapiens cDNA clone IMAGE:1100704 3' similar to	EGI TIOMES	AA3110/2.1	2.00E-78	1.7		9806	3932
EST182583. Jurkat T-cells VI Homo saplens cDNA 5' end	TOT LINAN	004409.1	2.00E-76	2.2	_	8234	3083
Homo sapiens type IV collagen aipha 5 chain (COL4A5) gene, exon 20	T	301 331	3.005-70	0.9	13971	8882	4015
Homo sapiens synaptojanin 1 (SYNJ1), mRNA	NT	4507934	3.005-70	0.9	13446	8327	3178
Homo saplens nuclear antigen Sp100 (SP100) mRNA	NIT.	AFUSOSUI.I	1 .	0.6	10477	5351	155
Homo sanians aRF1 gene, complete cds				0.6	10476	5351	155
Homo sapiens eRF1 gene, complete cds	NT I	18		1.3	14873	9776	4664
Homo sapiens phosphatidylinositol 4-kinase, catalytic, alpha polypeptide (FIN4CA)	Z	4505806	70C 78	;			
Homo sapiens prospiratuyinivativi Thiraco, wary and The Control of	<u> </u>	4505806 NT	4.00E-78	1.3	14872	9776	4664
		7000070	4.000-70	1.4	14431	9351	4227
Homo saplens syncytin (LOC30816), mRNA	NT.	2822		ç	2200	7376	2270
Homo sapiens pre-mRNA splicing factor (SFRS3) mRNA, complete cus	NT				CZELL	6/35	1629
SW:WAP PIG 046655 WHEY ACIDIC PROTEIN PRECURSOR;	EST HUMAN	A1985094.1	4 00E-78	6			
Novembrian gene mapping to spring control in the control of the co	Z	4.00E-78 AL355841.1	4.00E-78	0.6	11797	6628	1502
	2		5.00E-78	1.4	14819	9724	4610 1010
Human collagellase type in 10507/ gentle land	N N		5.00E-78 M55586.1	3.8	13598	<b>648</b> 3	3339
II							

		2					
Homo sapiens cullin 4A (CUL4A) mRNA, complete cds	N.	AE077188 1	1.000	1.0	13/63	8656	3515
Homo sapiens hypothetical protein FLJ10379 (FLJ10379), mRNA	Į.	8922391 NT	1.000	3 =		Т	1911
contains OFR.t1 OFR repetitive element;	EST HUMAN	A1732656.1	1 000				
Homo sapiens chromosome 21 univitowi military	3	AF231920.1	1.00E-80	1.1	11083	_	782
Homo sapiens chromosome 21 segment rocato io	Z,	AL163303.2		0.6	Т	Т	337
DKFZp434D1323_r1 434 (synonym: htes3) Homo saplens cDNA clone DKFZp434D1323 3	EST_HUMAN	AL043116.2	2.00E-80	2.4	12323	7123	2009
RE1487 Subtracted retina culve library noting september construction	EST_HUMAN	AI444821.1	2.00E-80	0.7	12125		1816
ygonado. I codres illians con il library Homo saniens con Re	ES HUMAN	R35321.1	2.00€-80	2.3	12059	╗	1757
230004.1 NO. COM COURT TIME Homo sapiens cDNA clone IMAGE:38060 5	EST HUMAN	AA215796.1	2.00E-80	1.8	11605		1308
2796004.11 NO. CGAP GCB1 Home sapiens cDNA clone IMAGE:683719 5'	EST HUMAN	AA215796.1		1.8	11604	7912	1308
FORMAL A NICL CRAP GCR1 Homo saniens cDNA clone IMAGE:683719 5	2	AL163210.2		1.6		5403	210
Homo sapiens chromosome 21 segment HS21C010	NT	AL163268.2		1.7	15063	9979	4872
COLIN Sapisits (Inter-comp. 24 segment HS21C068	2	AB019038.1	5.00E-80	1.1	14169	9086	3953
Homo sapiens high 1 mRNA for heta-14 mannosyltransferase, complete cds	Z	AB019038.1	_	1.1	14168	9086	3953
notito sapieris ris ilistorio ianni, monto con la mannosvitransferase, complete cos		4504292	5.00E-80	1.1	13050	7848	2764
Homo conione H3 histone family member J (H3FJ) mRNA	2	AB037855.1		1.4	12684	7482	2380
Homo saniens mRNA for KIAA1434 protein, partial cds	1 2	U89358.1	_	0.9	12623	7414	2311
Human (2) mbt protein homolog mRNA, complete cds	2	AL163283.2	-	0.8		6567	1440
H.Sapiens rick   gain (excit it)	2	X91647.1	<del>.</del> —	4.8		6306	1172
TOTTO Sapietis Settlie-Higotimic Process	Z	AF108830.1	_	1.3	11125	5967	817
Homo saplens serine unequine protein kinase (MNBH) mRNA, complete cds	Z	AF108830.1	5.00E-80	1.3	11124	5967	817
mRNA complete cds		06228		1.1	10851	5733	573
Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, 3 (PSMD3)		ABUSZBOILI	6.00E-80	1:3	14398	9314	4188
Homo sanians mRNA for KIAA1155 protein, partial cds	NT T	AB032981.1		=	14397	9314	4188
Homo sapiens mRNA for KIAA1155 protein, partial cds	1	004090.1	6.00E-80 C04090.	0.7	11918	6750	1624
Homo saniens NRD convertase mRNA, complete cds	ESI_HUMAN	Al422197.1	6.00E-80	0.8	11189	6030	882
MAN Q16795 NADH-UBIQI							
mRNA, partial cds	NT	U94387.1	8.00E-80	1.0		8691	3551
Homo sapiens Y chromosome spermatogenesis candidate protein (RBM) pseudogene	EST HOWAN	AA/25848.1	9.00E-80 /	3.8	13361	8257	3107
aizacos et Soares testis NHT Homo sapiens cDNA cione 1343648 3'	EST HUMAN			3.8	13360	8257	3107
601112833F1 NIT MGC 10 10110 Septembers cDNA clone 1343648 3	EST_HUMAN	L	1.00E-79 BE252804.1	1.5	10525	5397	202
Homo sapietis Circultoscitio 2 i seguinos con Actione IMAGE:3353581 5			2.00E-79 /	1.0	14797	9704	4590
Homo sapiens michael or ras-associated lactor, 17	NT			1.2	14287	9201	4074
Home sapiens diliving claimer CCCT (CCC)	N.	AF170492.1	2.00E-79 /	0.9	14074	8974	3838
cds	NT		2.00E-79 /	0.6	12581	7371	2265
Homo sapiens nepalicidal cal calculate association and activities associated associated and activities associated associated associated and activities associated associated							

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4638 9	Т	1647 6	4034 91			75 6602	П	Т	Т	Г	Т	Г	Г	$\lnot$	T	7254	6530	9695	Г	1_	_	_	8112	7423	6375	6375	8715	0202	323	7170	7470	5000 000	7279	9414	2 4 4	5 5 2 8 3	
97521	T	Г	9162	Γ	6762 11	$\top$	Τ	Т	T		Т	Τ		$\neg$	T	4 12462	0 11701	Γ	Ī	Γ	13218		13217	12632		11532	13812	1	13390	12378	19377	12088	12492	14504	14503	15351	
14040	4045	11944	14245	14357	11932	11//6		08011	100/0	2002		14/04	žž	$\dashv$	36	82	13	18	18	+	18		7	T			Γ										
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	4.00E-82	4 000 82	4 00E-80	5.00E-82	8.00E-82		8 00E-82	8.00E-82	8.00E-82	8 00 8	8 00E-82	R 00E-82	1,000-01	3	1.00E-81	1.00E-81	1.000	1 1 1 1 1 1	3 00F-81	2 00E-81	3.00€-81	3 00F-81	3.00E-81	3.000-01	3,000-01	3.000-01	4.00=-81		4.00E-81	4.00E-81	4.00E-81	4.00E-81	5.00E-61	6.00E-61	6.00E-81	1.00E-80	
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	H17755.1	H17755.1	AF081484.1	AA515512.1	8923432		AB037748.1	U08988.1	U.88680U	8.00E-82 U08988.1	AF161406.1	AF161406.1	BE047996.1	A A040370 1	AWYGOOO.	N66951.1		W26539.1	5453871 NT	AW611542.1	AL163283.2	4506280 NT	4506280 NT		AS077188 1	V19000 1	X18000 1	1 200	AB037766.1	8923056 NI	8923056	AW778612.1	000070	DESCROAS 1	DE256820 1	2.0/2	383
	III.	10	NT	EST	8923432 NT		Z	3	N	Z	N.	Z	EST	H S	15	ESI	$\dashv$	ESI	71 NT	EST	3	8 N	N N	$\dashv$	되	Z		EST.	Z	Ž	2	EST		EST		<u> </u>	3
	EST HUMAN	EST_HUMAN	-1	ST_HUMAN		•							T HUMAN	EST HUMAN		EST HUMAN		EST_HUMAN		MAN								HUMAN				HUMAN		EST HUMAN	EST HUMAN	EST HUMAN	
	ym40e06.11 Socies illustration	lym40e08,r1 Soares infant brain 1NIB Ho	Homo sapiens alpha-would issue the sapiens cDNA clone IMAGE:50499 5	nf69e11.s1 NCI CGAP Cos notito septo	Homo saplens hypothetical protein FLJ20461 (FLJ20461), mr.vs.	transcript variant 2, mRNA	Homo sabiens mixtyn ior kirkings percyldase 5 (epididymal androgen-related protein) (GPX5),	Human CKros gene, per us. Human CKros genes for KIAA1327 protein, partial cds	Human CNrot gene, partial cds	Human CN of Bene parial Cds		Homo sapiens nor Czow illiwa i Francisco	7245c04.y1 NCI CGAP Bm52 Hollio Sapiella COS	similar to PIR:S52437 S52437 CDP-diacy/glycerol symulase - iron iry i	7k45h09.r1 Soares pregnant uterus NbHPU Homo sapietis CONS Const	EST372729 MAGE resequences, MAGF Homo sapiens cDNA	2248/12.s1 Soares fetal liver spieen 1NFLS Homo sapiens CUNA Colle in College	33/3 Human reuna CUNA railes 11/2 Filippin Alana 11/2 Filippin Ala	Homo sapiens piateired and managed sublibrary Homo sapiens cDNA	Ingesout. X1 No. Core and arouth factor receptor-like (PDGFRL) mRNA	Homo sapiens chromosolite 2: 3 Septiens cDNA done IMAGE:2952384 3	1) (PTN) mRNA 21 secment HS21C083	1) (PTN) mRNA Homo sapiens pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor	Homo sapiens pleiotrophin (neparin ullium) grows	Home saplens cullin 4A (CUL4A) mixing growth factor 8, neurite growth-promoting factor	Homo sapiens NF2 gene	Homo sapiens NF2 gene	TR:043815 O43815 STRIATIN.;	INCORPORATION COMP Co3 Homo sapiens cONA clone IMAGE: 2002209 3 SIIIIII I	Homo saplens mRNA for KIAA1345 protein, partial cds	Homo saniens hypothetical protein FLJ20048 (FLJ20046), mixty	SW:COPG_BOVIN F35620 CO. FILIZO048 (FLJ20048), mRNA	hn98d02.x1 NCI_CGAP_CO14 Homo sapiens CO.	601125505F1 NIH_MGC_8 Home sapielis CON. Come IMAGE:3035907 3' similar to	601111970F1 NIH MGC 16 Homo sapiens CDNA clone IMAGE:3345480 5	601111970F1 NIH MGC 16 Homo sapiens cDNA clorid iiii	Homo sapiens chromosome 21 segment HS21C078

XX TOOCH COMIC MICHINICAL TO THE PROPERTY OF T	LOT LICHENT	1.00E-03  NZ/000.1	7.005-03	8.7	15055	9971	4864
contains Alu repetitive element;	EST HUMAN	AA584655.1	7.00E-83	1.6			2836
no12h01.s1 NCI_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100497 3' similar to	1		0.005		- 100	/003	0001
za48f12.s1 Soares fetal liver spieen 1NFLS Homo saplens cDNA clone IMAGE:295823 3'	EST HUMAN	N66951.1	8.00E-83	0.7	11054		105
601273346F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3614362 3	EST HUMAN	8.00E-83  BE383973.1	8.00E-83	0.7	11687	_	1392
Homo saplens mikiNA for KIAAU538 protein, parual cus	NT	1.00E-82 AB011110.2	1.00E-82	0.8	11553		1265
RC4-BT0310-110300-015-110 B10310 Homo sapiens CUIVA	EST_HUMAN	BE064386.1	1.00E-82	0.7	11552		1264
Homo sapiens tumor necrosis factor receptor superfamily, member 5 (TNFRSF5) mRNA	Z <sub>I</sub>	4507580	2.00E-82	1.7	15186	10115	5013
Homo sapiens tumor necrosis factor receptor superfamily, member 5 (TNFRSF5) mRNA	NT T	4507580 NT	2.00⊑-82	1.7	15185	10115	5013
spliced and replication factor C subunit 2 (RFC2) gene, complete cds	NT	AF045555.1	2.00E-82	3.2	14973	9879	4768
Homo sapiens mixing for NAM rues protein, parter was	NI	AB029019.1	2.00E-82	1.0	14676	9578	4458
Homo sapiens miking for KIAA1096 protein, partial cus	NT	AB029019.1	2.00E-82	1.0	14675	9578	4458
Homo sapiens giulamate receptor, ionotropic, kainate 1 (GKINT) IIIKNA	NT	4504116 NT	2.00E-82	1.1	14347		4140
Homo sapiens DNA for amyloid precursor protein, complete cos	NT	D87675.1	2.00E-82	1.1	13998	_	3772
Homo sapiens sal (Drosophila)-like 1 (SALL1), mRNA	NT	6997248 NT	2.00E-82	1.8		П	3231
	NT	5453855 NT	2.00E-82	1.1	12496	П	2176
DKFZp434M117_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434M117 5	EST_HUMAN	AL046390.1	2.00E-82	0.6	11960	6784	1660
Homo sapiens mRNA for KIAA0999 protein, partial cds	NT	AB023216.1	2.00E-82	0.7	10859	$\neg$	582
Homo saplens mRNA for KIAA0999 protein, partial cds	NT	AB023216.1	2.00E-82	0.7	10858	П	582
zn93b04.r1 Stratagene lung cardnoma 93/ZTB Homo sapiens culva didite livia della consistenti di SW:PAGT_BOVIN Q07537 POLYPEPTIDE N-ACETYLGALACTOSAMINYLTRANSFERASE;	EST_HUMAN	AA135979.1	3.00E-82	0.9	15033	9944	4836
Homo sapiens neurotrophic tyrosine kinase, receptor, type 2 (N1 KK2) IIIKNA	NT	5453811	3.00€-82	2.1		8382	3234
Homo saplens adenylate cyclase activating polypeptide 1 (piluliary) receptor type (ADCYAP1R1) mRNA	N	4501922 NT	3.00E-82	0.9	12276	7077	1961
Homo saplens chromosome 21 segment HS21CU85	NT	AL163285.2	3.00E-82	0.7	11751	$\neg$	1450
RC6-PT0001-190100-021-802 P10001 Homo sapiens culvin	EST_HUMAN	AW875073.1	3.00E-82	5.5	11630		1333
al23e05.s1 Soares_testis_NHT Homo sapiens cDNA clone 1343648 3	EST_HUMAN	AA725848.1	3.00E-82	4.7		6185	1045
Homo sapiens amyloid beta (A4) precursor protein (protease rexuit-it, Additional cuseose/(APP), mRNA	NT	4502166	3.00E-82	<u>:</u>	11161	6001	852
mRNA	NT	5174702 NT	3.00E-82	1.5	11071	5922	770
Homo saplens complement component 5 (C3) mk/vs	NT	4502506	3.00E-82	1.0		5858	703
	EST_HUMAN	BE005705.1	3.00E-82	0.8	10978	5842	687
Homo sapiens amyloid beta (A4) precursor protein (protease nexin-ii, Azrielmer disease) (APP), mRNA	N <sub>T</sub>	4502166	3.00E-82	4.7	10593	5464	276

			1.00	11	7 14358	1 9277	4151	
H.sapiens gene for mitocholiuliai dudewiic).	NT	Z25822.1	1 00=-83	T	Γ	ł	3793	
Rattus norvegicus prairi sposiis - Rattus norvegicu	N	1.00E-83 AF053768.1	1.00E-83	T	Т	Т	3146	
The transfer of the property o	7662349 INI		1.00E-83	0.8	T	Т		
Homo sapiens cell recognition molecule Caspr2 (KIAA0868), mRNA	4504326 NT		1.00E-83	6.0	7 11685	ol 6517	1390	
Homo saplens hydroxyacyi-Coericyine o conjung protein), beta subunit (HADHB) mRNA thiolase/enoyi-Coericyme A hydratase (trifunctional protein), beta subunit (HADHB) mRNA		-						<u> </u>
A dohydronenase/3-ketoacyl-Coenzyme A	4504326 NT		1.00E-83	6.0	11684	6517	1390	
thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB) mRNA	i							1
A dehydrogenase/3-ketoacyi-Coenzyme A	1	1000	1.005-03	1.2	11561	6402	1273	_
Homo sapiens oxoglutarate dehydrogenase (iipoaiiilue) (Cocii)	TNC		1.000	1.4	11560	6402	1273	
Homo sapiens oxoglutarate denydrogenase (lipositilice) (CGDH) mRNA	92 NT		2.000.00	٩		9672	4553	
Homo sapiens ankyrin repeat-containing protein (200 - 100 mRNA	98 NT	7706398 NT	3 005 83	2	Г	Γ	4553	·
Homo saplens ankyrin repeat-containing protein ASB-2 (LOC51676), mRNA	98 NT	AF202879.1 NI 7706398 NT	2.00E-83	4.5		9366	4241	
	i						9	Т
Homo sapiens hematopoletic progenitor cell antigen CD34 precursor (CD34) mRNA, partial	NT	AL163202.2		1.0	12001	8846	1983 3708	_
Zo 19240.50 mile : 21 segment H	EST HUMAN	AW247459.1	2.00E-83	1	13201		1000	Т
2848/12.31 Scales form MGC 7 Homo sapien	* Ph	N66951.1	2.00E-83 N66951.1	0.8	12186	7001	1997	-т
TR: Q92614 Q92614 MYELUBLAS I NICHES TO Saplens cDNA done IMAGE: 295823 3	EST_HUMAN	AA993492.1	2.00€-83	0.7	12062	6880	1759	
TR: Q92614 Q92614 MYELCHANS I NIPPOZITO: O164g05.s1 Soares_tests_NHT Honoras CDNA clone IMAGE: 1621592 3' similar to	EST HUMAN	AA993492.1	2.00E-83	0.7	12061	6880	1759	
contains THR t2 THR repetitive element; contains THR t2 THR repetitive element; ot64g05.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1621592 3' similar to	EST_HUMAN	AA632654.1	3.00E-83	0.7		7834	2750	
np87c07.s1 NCI_CGAP_Thy1 Homo saplens cDNA clone IMAGE:1133292 similar to	EST_HUMAN	AA368311.1	3.00E-83	1.5		6126	981	
enzyme E2D 3 (UBE2D3) genes, complete cus	N	AF224669.1	4.00E-83	1.5	10905	5783	624	
Homo saplens mannosidase, beta A, lysosomai (MANBA) Belle, allo unique.		Arvosozi	5.00E-83 /	0.9	15271	10192	5094	
Homo sapiens dihydropyridine receptor alpha 2 subunit (CACNAZOT) gene, confuga	NT	455/013/41		11.0	15184	10113		1
Homo saplens catalase (CAT) mRNA	NT	435/013/NT	5.00E-83	11.0	15183	1013		Т
Homo sapiens catalase (CAT) mRNA	NT Z	AL 133207.2		0.9	13821	8725	3586	Т
Novel human gene mapping to chomosome X	4	AFOUBJUD. I		0.8		7871	2002	T
Homo sapiens 26S proteasome regulatory subunit (SUG2) mRNA, complete SC	212	U1/883.1		1.4		6078	831	Т
3' Human succinate dehydrogenase iron-protein subunit (sdhB) gene, exon 5	EST_HUMAN	AA701457.1		0.9	13283	8183	3031	
2/59c05.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens curva dulle illimode.	CO 101100	AW816405.1	6.00E-83 A	1.5	13241	8136	2984	П
to SW:YBEB_HAEIN P44471 HYPOTHE I CAL FROTEIN TROOP.	EST HUMAN	AW573088.1		0.5	12047	6869	1747	
hi31h03.x1 Scares_NFL_T_GBC_S1 Homo saplens cDNA clone IMAGE:2933323 3 Sillings	2		6.00E-83 M33320.1	1.3	10701	5565	397	$\neg$
Human niatelet Givcoprotein IIb (GPIIb) gene, exons 2-29								

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1651	1560	1560	1057	1057	951	4823	4601	4601	4319	3691	2008	1271	537	309	2932	2913	3689	3542	1962	1917	1137	313	5060	4869	1389	1354	2981	697	2348	4789
Т	$\neg$	$\neg$		6196	6097	9442	9715		9442	8830	$\Box$	64 8	5700			$\Box$		8683	7078	7034	6273	5497	10158	9976	6516	6482	8132	5852	7450	9900
٦			11349	11348		14530	14808	14807	14530	13923	12322	11558	10822	10622	13191	13172	13921	13783	12277	12222	11423	10626	15233	15061	11683	11648		10988	12657	14993
1.8	1.1	1.1	0.8		1.2	4.3	3.8	3.8	5.6	2.1	1.1	0.7	1.8	0.5	0.9	9.6	4.1	1.2	=======================================	1.2	0.9	1.4	1.3	1.8	1.5	1.1	1.0	1.1	1.7	1.4
9.00€-85	9.00E-85	9.00€-85	9.00E-85	9.00€-85	9.00E-85	1.00E-84	1.00∈-84	1.00E-84	1.00E-84	1.00E-84	1.00E-84	1.00E-84	1.00E-84	1.00E-84	2.00E-84	2.00E-84	3.00€-84	3.00E-84	3.00E-84	3.00E-84	3.00E-84	3.00E-84	4.00E-84	4.00E-84	4.00E-84	4.00E-84	5.00E-84	5.00E-84	6.00E-84	1.00E-83
7657020 NT	M33282.1	M33282.1	I	_	—		AL043314.2	AL043314.2	AJ229041.1	AA720851.1	1	AA984379.1	4507952 NT	AF114488.1			AF014459.1	AB026898.1	AL096880.1	5453855 N	4758081	AF026200.1	U94982.1	AF069601.2	Al685321.1	4.00E-84 AB037735.1	AF109718.1	AA382811.1	AA776574.1	4502166
NT	NT	N	3	Z	Z	Z	EST_HUMAN	EST_HUMAN	NT	ESI_HUMAN	EST HUMAN	B	2 NT	N.T	N	ZT	Z	NT	Z	N T	N	Z	NT	NT	EST_HUMAN	NT	NT	EST_HUMAN	EST HUMAN	Z,
Homo sapiens DKFZp434P211 protein (UKFZF454FZ11), IIINIXX		Human plasminogen gene, exon /	Homo saplens nuclear protein skip illinian, complete cos	Homo sapiens nuclear protein oxio illinion, complete cde	Homo sapiens chromosome z i segment i oz i coco	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3	DKFZp434N0323_r1 434 (synonym: htes3) Homo saplens cDNA clone DKFZp434N0323 5	DKFZp434N0323_r1 434 (synonym: htes3) Homo sapiens cDNA done DKFZp434N0323 5	Homo saplens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3	NW12605.ST NOT COAT 33 I Holing September Series Come Intercent	601308006F1 NIH MIGC 44 Homo explane CDNA clone IMAGE:1239106 3'	am85b11.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:1629885 3'	zeta polypeptide (YWHAZ) mRNA	Homo sapiens intersecun snort isolotti (11 Silv) ilinvan, cumpios cus			Homo saplens X-linked juvenile retinoschisis precursor protein (XLRS1) mRNA, complete cds	ORCTL4 genes, complete cds)	Novel numan mixty containing this inger care aging section 1/2 (DLEC1, ORCTL3,	Homo sapients periodicular interior (CSH) tone domains	Homo sapiens chondrolan suitate protection 2 (version) (version)	Homo sapiens Bach1 protein nomolog inicitys, partial was	Human 2,4-dienoyi-CoA reductase gene, excris 3 and 4			Homo sapiens many for NAY 1014 picturil, parties Con 100 con 1	Homo sapiens chromosome a subretorine region	EST96094 Tests 1 Homo sapiens curva o end	ae86a03.s1 Stratagene scritzo prairi 311 norito sapieris contr. contr. instruction	

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3686	3686	3369	2222	1173	46		266	4380	1272	921	921		220	1410	2241	4822	4239	2793		2183	1400	1400	1024	947	4883	4219	1741		1277	2530	2530	2285	1120	4825	4778	4158	
36 8824	8824	9 8512	2 7329	3 6307	200	Т		0 8502	$\neg$	1 6067	6067		5412	6537	П		9364	6444	П		6527	_	6164	6093	188	Τ	T		6407	7626	7626	7390	6257	9933	9886	9284	
13918	13917	2 13619			ľ	Т	3 10578	2	1 11559	11224	11223		10533			15021	14445	Γ		12504	11697	11696	11318	11251	2,001	14420	12041		11567	12828	12827	12598	11409	15023	14981	14364	
2.2	7 2.2	1.4				T	1.3	3.2	3.2		1.3		1.3	2.8	0.9	1.3	5.4	1.4		0.8	2.6	2.6	0.6	0.9	0.0		2 -	<u>ه</u> د	1.2	=	=	1.2	=	1.0	=	0.9	
2.00E-86	2.00E-86	2.000-00	2.005-00	2.00E-86	1	2.00E-86	2.00E-86	6.00E-86	6.00E-86	7.00⊑-86	7.00E-80		7.00E-86	9.00E-86	1.00E-85	2.00E-85	2.005-85	2.00=05	200	2.00E-8	2.00E-85	2.00E-85	2.00E-85	2.00€-85		3 005-85	3 000 5	3 00E-85	3.00E-85	5.00E-85	5.00E-85	5.00E-85	7.001-85	8.UUE-05	9.00E-05	9.001-85	7
86 AF156776.1	86 AF156776.1	00 X44900 145.1				36 AL163203.2		IN ROZEZES		AA86080	AVAGOUGUT.I		9	BE2/42	1	5 AL163284.2			7657468 NT	2.00E-85 U10525.1	5 51/4//5 NI		AF 24604			7363442	RF267189.1	197495.1	AF096157.1	F08331.1	F08331.1	AL163204.2	LU3094.1	VF 109700"	VI 183088 0	WE 10320	
NT	NT	100	EST HUMAN	EST HUMAN		N	EST HOMEN	મ	NT N	EST_HUMAN	1,10	DOT HIMAN			EST DUMAN		17	NT.	N	N	N	7	7	NT				EST HUMAN	2	10185	HIMAN	II (MAN)					27
cds	cds Homo sapiens lysophosphaudic acid acyltransferase-delta (LPAAT-delta) mRNA, complete	Homo saplens lysophosphatidic acid acyltransferase-delta (LPAA I -delta) mrnna, cumpleto	EST378215 MAGE resequences, MAGI Homo saplens cDNA	Homo sapiens mRNA for KIAA1277 protein, partial cds	yz 19a08.r1 Soares_multiple_scierosis_zivoritats; Toling out	Homo sapiens chronicschie z i seginani i ce i como seniens cDNA clone IMAGE:2834;	EST 17 232 SURVEY COMP 24 comment HS21C003	EST177222 Inrkat T-calls VI Homo sapiens cDNA 5' end	Homo saplens hypothetical protein FLJ20220 (FLJ20220), mRNA	3' Homo saniens oxogiutarate dehydrogenase (lipoamide) (OGDH) mRNA	aj88f08.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1403559	3	al88f08 s1 Soares parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1403559	Homo sapiens K(AA0680 gene product (KIAA0680), mRNA	Ign1120778F1 NIH MGC 20 Homo sapiens cDNA clone IMAGE:2967690 5	En117010NE1 NIH MIGC 20 Homo sapiens cDNA clone IMAGE:3546959 5	Homo saniens chromosome 21 segment HS21C084	Homo sapiens plasminogen (PLG) mRNA	Homo sapiens similar to rat integral membrane glycoprotein in Community (Community)	I Idillan Six (BOM121 1) mRNA	Himan DNA nolymerase bela gene, exons 12 and 13	Homo saniens apolipoprotein C-II (APOC2) mRNA	Homo saciens apolipoprotein C-II (APOC2) mRNA	(KIAA0929), mRNA Homo saplens intersectin 2 (SH3D18) mRNA, complete cds	Homo saptens KIAA0929 protein Msx2 interacting nuclear target (will v.) increase	Homo saplens offactory receptor, family 12, subtamily D, member 2 (On 1202), http://	601189704F2 NIH_MGC_7 Homo sapiens cDNA cione IMAGE 3033010 3		TOTIC SEPTIME FROM PLANTED TO THE PROPERTY OF		HSCZOH081 normalized Infant brain cDNA Homo sapiens cDNA clone c-zqnub	HSCZOH081 normalized Infant brain cDNA Homo saplens cDNA clone c-zgnus	Homo saplens chromosome 21 segment HS21C084	Homo saplens ribosomal protein L27 mRNA, complete cds	Homo sapiens chromosome 21 segment HS21C068	Homo saplens heat shock transcription factor 2 binding protein (HSF2BF), mRNA	Homo sapiens chromosome 21 segment HS21C080

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1787	4934	4172	4172	3574	1327	1327	1090	5057	3673	3649	1413	1413	1165	4880	2749	3419	2372	2372	1985	1411	1155	950	1142	3482	471	4832	4167	3864	3864	3256	3256	3197	3125	1579		4679	3954
6907	10040	9298	9298	8713	6456	6456	6228	10155	8812	8788	6540	6540	7867	9987	7833	8561	7474		7100	6538	6290	П	$\neg$	7	Т	T	Т	$\neg$						6705		- 1	9087
	15112	14380	14379	13811	11623	11622	11379	15231	13906	13881	11714	11713		15069	13034	13672	12675	12674	12303	11711	11444	11253	11430	13735	10765	Т	Ī	٦	14100	13510	13509	13459	13379	11875		14892	
1.2	1.2	2.6	2.6	=	0.7	0.7	2.5	1.0	2.5	3.2	0.9	0.9	0.8	0.8	1.1	2.2	::	1.1	0.9	0.9	3.6	1.3	0.6	0.9	4.8	=	5.8	11.5	11.5	1.3	1.3	2.4	2.1	1.1		2.8	2.4
5.00E-88	9.00E-88	9.00E-88	9.00E-88	9.00€-88	9.00E-88	9.00E-88	9.00E-88	1.00E-87	1.00E-87	1.00E-87	1.00E-87	1.00E-87	1.00E-87	2.00E-87	2.00E-87	4.00E-87	4.00E-87	4.00E-87	4.00E-87	4.00E-87	4.00E-87	4.00€-87	5.00E-87	6.00E-87	8.00E-87	1.00E-86	1.00E-86	1.00E-86	1.00E-86	1.00E-86	1.00E-86	1.00E-86	1.00E-86	1.00E-86		2.00E-86	2.00Ε-86
7661887	AB02689	X91929.1	X91929.1		9.00E-88 AB037820.1	AB037820.1	AF167465.1	_		Y00052.1	AW361977.1	AW361977.1	7705683	BE175478.1			7706299 NT	7706299	AB007925.1	R78133.1	AB037835.1	AL163210.2	AA382811.1				AL163300.2	7706161			AL163209.2	L20492.1	5453649 NT			AF056490.1	2.00E-86 AW515742.1
NT	T	NT	NT	NT	NT	NT	Z,	NT	NT	N <sub>T</sub>	EST HUMAN	8	3	EST_HUMAN	Ι΄	NT	NT	NT	NT	EST_HUMAN	NT	TN	EST_HUMAN	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT		NT I	EST HUMAN
Homo sapiens KIAA0063 gene product (KIAA0063), mRNA	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)		H.saplens ECE-1 gene (exon 9)	Homo sapiens chromosome 21 segment HS21C009	Homo sapiens mRNA for KIAA1399 protein, partial cds	Homo sapiens mRNA for KIAA1399 protein, partial cds	Homo sapiens double stranded RNA activated protein kinase (PKR) gene, exon 12	Rattus norvegicus taste bud receptor protein TB 641 (TB 641) gene, complete cds	Homo sapiens neurexin III (NRXN3) mRNA	Human mRNA for T-cell cyclophilin	PM2-CT0265-141099-001-g04 CT0265 Homo saplens cDNA	PM2-CT0265-141099-001-g04 CT0265 Homo sapiens cDNA	Homo saplens putative glycolipid transfer protein (LOC51054), mRNA	RC5-HT0580-200300-031-G04 HT0580 Homo sapiens cDNA	Homo sapiens high-mobility group (nonhistone chromosomal) protein 4 (HMG4) mKNA	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trinorax (urosopinia) nomoiog); translocated to, 4 (MLLT4) mRNA	Homo sapiens CGI-60 protein (LOC51626), mRNA	Homo saplens CGI-60 protein (LOC51626), mRNA	Homo sapiens mRNA for KIAA0456 protein, partial cds	yi80f10.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:145579 5' similar to contains Alu repetitive element;	Homo sapiens mRNA for KIAA1414 protein, partial cds	Homo sapiens chromosome 21 segment HS21C010	EST96094 Testis I Homo sapiens cDNA 5' end	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA	O.cuniculus mRNA for elongation factor 1 alpha	Homo sapiens FK506-binding protein FKB23 isoform mRNA, complete cds	Homo sapiens chromosome 21 segment HS21C100	Homo sapiens hypothetical protein (LOC51318), mRNA	Homo sapiens hypothetical protein (LOC51318), mRNA	Homo sapiens chromosome 21 segment HS21C009	Homo sapiens chromosome 21 segment HS21C009	Human gamma-glutarnyl transpeptidase mRNA, complete cds	Homo sapiens fibulin 5 (FBLN5) mRNA	l l	Homo sapiens NADH dehydrogenase (ubiquinone) Fe-S protein 1 (75kD) (NADH-coenzyme	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds	hd87g08.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2916542 3'

																_ 4	_											_				
5007	5007	4537	4537	3480	2383	2383	2166	1601	1601	1006	4847	4785	426	426	2705	1710	4328	1716	1607	1020	4147	4147	2918	1770	207	4631	3491	3343	2978	2978	2970	2602
10109	10109	9656		8621	7485	7485	7275	6728	$\neg$	$\neg$		9896			П	1	П	$\neg$	П			╗		6891	5400		8632	8487	_			7692
15179	15178	14744	14743	13733	12687	12686	12486	11899	11898	11300	15043	14989		10726		$\neg$	T	$\Box$			14352	14351	13179		10527	14842	13744		13237	13236	13228	12898
2.8	2.8	3.5	3.5	0.8	0.7	0.7	1.1	1.9	1.9	1.1	5.1	2.9	1.4	1.4	0.5	0.6	1.9	1.5	0.9	1.4	1.2	1.2	4.3	4.8	1.5	0.9	0.9	2.3	0.9	0.9	0.9	1.1
5.00E-89	5.00E-89	6.00E-89	6.00E-89	6.00E-89	6.00⊑-89	6.00E-89	6.00E-89	6.00E-89	6.00E-89	6.00E-89	7.00E-89	7.00€-89	7.00E-89	7.00E-89	8.00E-89	9.00E-89	2.00E-88	2.00E-88	2.00E-88	2.00E-88	3.00E-88	3.00€-88	3.00E-88	3.00E-88	3.00E-88	5.00€-88	5.00E-88	5.00E-88	5.00E-88	5.00E-88	5.00E-88	5.00E-88
9 BE244323.1	9 BE244323.1	9 AB007866.2						4827015 NT			AL045748.1	4557390 NT	7657213 NI	7657213 NT	BE31155		5031666		AF246219.1	7305198	4501912 NT	4501912	N66951.1	4508020	4826831 NT	5.00E-88 AF114488.1	AF114488.1	Al693217.1	5.00E-88 AF114488.1	5.00E-88 AF114488.1	AF114488.1	N89399.1
EST_HUMAN	EST_HUMAN	Z	NT	ZNT	NT	NT	TINT	5 NT	5 NT	NT	EST_HUMAN	NT	NT	NT	EST HUMAN	NT	NT	NT	NT	N <sub>1</sub>	NT	NT	EST_HUMAN	NT	TN	NT	NT.	EST_HUMAN	NT	NT.	NT	EST_HUMAN
project=TCBA Homo sapiens cDNA clone TCBAP0383			Homo sapiens mRNA for KIAAUAUS protein, partial cos	Homo sapiens HSPC159 protein (HSPC159), mKNA		Homo sapiens ubiquitin-conjugating enzyme EZL 3 (UBEZL3) mRNA	Homo sapiens serine/threonine-protein kinase PKP4 nomolog (PKP4) (TKP4)	Homo sapiens solute carrier family 4, anion exchanger, member 3 (SEC445) HINNY	Homo saplens solute carrier family 4, anion exchanger, member 3 (3LC4A3) ITINNA	Homo sapiens inner membrane protein, mitochondrial (mitotilin) (IMMI), mkna	DKFZp434E246_r1 434 (synonym; htes3) Homo saplens cDNA clone DKFZp434E246 5'	Homo sapiens complement component 8, beta polypeptide (CSB) mknik		Homo saplens homonally upregulated neu tumor-associated kinase (HUNN), mkna	601142409F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3508186 5	Homo saplens SMC (mouse) homolog, Y chromosome (SMCY) mRNA		Homo sapiens SNARE protein kinase SNAK mRNA, complete cds	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds	Homo saplens Calsenilin, presenilin-binding protein, EF hand transcription factor (CSEN), mRNA	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAW23) mriva	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAM23) TIKNA	za48f12.s1 Soares fetal liver spieen 1NFLS Homo sapiens cDNA clone IMAGE:295823 3'	Homo sapiens zinc finger protein 259 (ZNF259) mKNA	Homo sapiens Machado-Joseph disease (spinocerebellar ataxia 3, olivopolitiocerebellar ataxia 3, autosomal dominant, ataxin 3) (MJD) mRNA	Homo sapiens intersectin short isotorm (11 SN) mkNA, complete cas		wd68h08,x1 NCI_CGAP_Lu24 Homo sapiens CLNA clone imAGE:2330789 3 similar to contains Alu repetitive element;contains element MER22 MER22 repetitive element;	Homo saplens intersectin short isoform (ITSN) mRNA, complete cas			K9719F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA done K9719 5' similar to ZINC FINGER PROTEIN HZF1

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4557	1663	1070	587	299	299	4571	4507	4507		4446	2508	1175	146	41 24	4134	3029	3029	818_	1040	104		370	4396	4061	4061	4053	2852	1770	150	170	145	402	43	121	121	2847
7 9675		6208	5747	5485	5485	9689	9626	9626	ヿ	Т	П	Т		_	_		П	- 5968	010/	6187	2407	25.45	9518	9188	9188	95	8003	0038	6000		E202	5570	5570	5570	5570	7998
5 14767	11964	11361		Γ	Г		14719	14718	П	٦	$\neg$	11463		14342	14341	13282	13281		- 100	11338	1122	10881	14608	14273	14272	14263	13101	1200	13087	1208	DAN S	10708	10707	10708	10707	13095
67	2	52	Γ																T												T			$\exists$		$\Box$
4.1	3.3	6	0.6	0.6	0.6	0	=	=		3.1	0.8	0.5	3.6	7.3	7.3	1.1	1.1	0.9	1	10	2	1	1.1	6.2	6.2	1.5	2.0	i	٥	13		0.9	9.9			1.6
4.00E-90	4.00E-90	4.00E-90	4.005-90	4.001-90	4.00E-90	5.00E-90	5.00E-90	5.00E-90		5.00E-90	5.00E-90 AF114487.1	5.00E-90	5.00E-90	6.00E-90	6.00E-90	6.00€-90	6.00E-90	7.00E-90 AF223391.1		8.00E-90	8 005 90	1.00E-89	2.00€-89	2.00€-89	2.00E-89	2.00E-89 AF089897.1	2.00E-89 AI222095.1		2 00E-89	2.00€-89	2.00E-89	2.00E-89	2.00E-89	2.00E-89	2.00E-89	3.00E-89
		_				1			1	0	0 AF11	0 U80226.1	O ABOS	0	P	0 X91926.1	0 X91926.1	0 AF22		_		) 	1	X58742.1		AF08	A1222			_					Ĭ	
D8/6/5.1	X99033.1	4505310	AISOSS, I	AFZ318ZU.1	AF231920.1	AL135549.1	AA705222.1	AA/05222.1		4506354	4487.1	26.1	AB035344.1	8922398 NI	8922398 N I	26.1	26.1	3391.1		AL163246.2	AL 163246.2	927.1	AJ007378.1	12.1	12.1	3897.1	095.1		4503314 NT	4503314 NT	AB037763.1	7706670 NT	7706670 NT	7706670 NT	7706670 NT	AW976181.1
12	1 2		100	721	12	EST	EST	E C	T 0 1	21 N	3	Ž	Z	98 N.	N -	Z	3	목	+	N	NT	EST_	Z	N I	3	N	EST		킼	<del>\$</del> ¥	Z	S N	O NT	R	3	EST,
			TOWN			EST_HUMAN	EST_HUMAN	בטו חטואאוא														HUMAN					HUMAN									EST_HUMAN
I WILL SEPTIME COLUMN TO THE PARTY OF THE PA	n.sapielis gaile discers anyloid precursor protein, complete cds	H carlens gene encoding discoldin receptor tyrosine kinase, exon 16	Homo sanians myosin phosphatase, target subunit 1 (MYPT1), mRNA	CM-RT092-030299-022 BT092 Homo sapiens cDNA	Homo saniens chromosome 21 unknown mRNA	DKFZp762P1616_r1 762 (synonym: nmeiz) momo sapielis curvo curie una epice.	3' 3' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5' 5'	zj82g10.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:461442	2/82g10.s1 Soares_retal_liver_spiceri_ intrico_o i nomo capació como	Homo sapiens pregnancy-zone protein (FE) Thinks	Homo sapiens intersecun long isolonii (113N) illinary, compress con		HOMO Sabiens i CLO gene, excit i 100	1:	nomo sapiens hypothesical protein EL 110388 (FLJ10388), mRNA	n.sapielis ecce. gelie (exci. v)	H.sapiens ECE-1 gene (excit of)	cds, alternatively spliced	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons / 49, and parder		Homo sapiens chromosome 21 segment HSZTCU46	SW:BAC1_HUMAN 014867 TRANSCRIPTION REGULATOR PROTEIN BACH1;	Homo sapiens GG1 gene, exon 3	H.Sapiens HCN gene for sylvanie kliese (1 11%) warra 12		Homo saplens topolsomerase-related function protein (1874-2) illustry, person	Alu repetitive element;	qg96c08x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3 Similar to the control of	Homo saplens diacylglycerol kinase, gamma (90kD) (DGKG) mKNA	Homo sapiens diacy/g)ycerol kinase, gamma (90kD) (DGKG) mRNA	Homo saplens mRNA for KIAA1342 protein, partial cos	Homo sapiens PXR2b protein (PXR2b), mKNA	Homo saplens PXR2b protein (PXR2b), mKNA	Homo sapiens PXK2b protein (PXK2b), mining	Homo sapiens PXR2b protein (PXR2b), mRNA	EST388290 MAGE resequences, MAGN Homo sapiens cDNA

cds	NT	AF156776.1	4.00E-91	1.3	13427		3166	
Homo sapiens lysophosphatidic add acyltransferase-delia (LT )		BE259124.1	4.00E-91	2.5		Т	1223	
601115508F1 NIH MGC 16 Homo sapiens CDNA Colle INVAGE: 30000	A IEST HUMAN	2000	5.00E-91	0.8		Т	4703	
Homo saplens chromosome 22 open reading frame 5 (C22UKF3), IIIN II	7110634 NT		5.00€-91	0.8	T	Т	4703	
Homo saplens chromosome 22 open reading frame 3 (CACCIN 2), mena	1 -	BE0/480	5.00E-91	6.0		7	3601	
PM3-BT0583-170200-001-e06 BT0583 Homo sapiens CUNA	EST HUMAN	_	5.00E-91	6.0	13834		3601	
	EST HUMAN	AA702794.1	5.00E-91	1.5	13683	8571	ocre	
zi90b04.s1 Soares_fetal_liver_spieen_INFL3_31 110		VAN 30 1 100. 1	9.00E-81	0.8	10475	5347	151	
EST373222 MAGE resequences, MAGE FOUND septions cDNA clone IMAGE:448015	EST HUMAN	AW/051450 1		0.9	11731	7	1428	
Rattus norvegicus brain specific cortactin-binding protein Cortactin-b	NT			5.5	14312	7	4101	
alternative exons 9 and complete cus, alternative exons 9 and complete	NT HUMAN	AF167340.1		1.0	14537	9449	4326	т
Homo sapiens soluble interleukin 1 receptor accessory in		70000	1.000-90	1.2	14006	8914	3777	_
Homo saplens mRNA for KIAA0903 protein, parties protein (IL1RAP) gene, exon 8.	NT	AB020710.1		1,2	14005	T	3777	_
Homo sapiens mRNA for KIAA0903 protein, partial cols	NT I	AB020740 1		8.4	13077	Т	2823	_
Homo sapiens chromosome 8 open reading litality 2 (2001)	1	6005720 NT		4.0		7	1644	7
601159563F2 NIH MGC 53 Homo sapielis CONT CONTROL MRNA	EST HUMAN	AF 090 134.1	_	1.2	11577	П	1284	> T
Homo sapiens protein phosphalase ZA BK garillia sopril. BC::3511118	Z	AFU90134.1		1.2	11576	412	1284	۱ T
Homo sapiens protein phosphatase 2A BK gamilla subulik gene exon 3	NT.	4507020		0.8		6232	100	_
Homo sapiens Kruppel-like factor 7 (ubiquious) (Ner /), illi (Pani	N N N	AF264/50.1		2.6	11005	5867	713	7
Homo saplens ALR-like protein mRNA, partial cds	27	AF264750.1	1.00E-90 /	2.6	100	5867	713	Т
Homo sapiens ALR-like protein mRNA, paruai cos	ŽĮ.	AJ23/308.1		0.7	10968	5835	8	Т
Homo sapiens mRNA for T-box transcription lactor (1572)	Z	AJ23/300.1		9.7	10967	5835	8	Т
Homo sapiens mRNA for T-box transcription racio (10/20 gene) partial	NT I	AP 23 1920 1		5	10680	7861	371	Т
Homo saplens chromosome 21 unknown mixix	3	E234020 1		1,2	10680	7861	370	T
Homo saplens chromosome 21 unknown mkNA	Z	40001	1.00E-90	1,2	10592	5463	275	
(APP), mRNA	Z T	4500166						Т
Homo saplens amyloid beta (A4) precursor protein (protease nexin-ii, Aizireiiiici Coscor)	N	5729855	2.00€-90	8.3	15020	9029	1820	T
Homo sapiens GRB2-related adaptor protein (GRAF) IIINIVA		ABOUSSZ1.1	2.00E-90 A	1.1	14796	873	200	T
IMAGE:1713410 3' similar to SW:OLF3_MOUSE F23213 Homo sapiens mRNA for KIAA0289 gene, partial cds	EST_HUMAN	AI138213.1		2.8	13997	8908	3771	
qc54c02.x1 Soares_placenta_8to9weeks_2NbHP8to9W Homo sapiens cDNA done	NT	5031748 NT	2.00E-90	1.2	11446	6291	1156	
Homo saniens high-mobility group (nonhistone chromosomal) protein 17 (HMG17), mRNA	2	5031748 NI	2.00E-90	1.2	11445	6291	1156	
Homo saplens high-mobility group (nonhistone chromosomal) protein 17 (Think 17), """			3.005-90	0.6	$\frac{1}{1}$	5872	718	П
43c5 Human retina cDNA randomly primed sublicial 7	T HUMAN	W/28180 1	4.00E-90	$oldsymbol{\downarrow}$	14917	9825	4713	1
Human prohormone converting enzyme (NEC2) gelie, excite			4.00E-90 AE	2.0	14904	883	4691	٦
Homo sapiens mRNA for KIAA1244 protein, parual cus	NT				İ			

	3166	8315	13428	 ယ	4.00E-91	AF156776.1	N N	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAAT-delta) mRNA, complete
	2624	ГТ		П	3.00E-91	7706508 NT	BINT	Homo saplens beta-ureidopropionase (LOC51733), mRNA
	2624	П	12915		3.00E-91	7706508 NT	BNT	Homo saplens beta-ureidopropionase (LOC51733), mRNA
	3297	8443	13552	1.8	3.00E-91	AL163283.2	IN	Homo sapiens chromosome 21 segment HS21C083
	3416	8558	13668	3.0	3.00E-91	AB033104.1	TN	Homo sapiens mRNA for KIAA1278 protein, partial cds
	3416	Г	13669	3.0	3.00E-91	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
	3720	Г	13950	0.8	3.00E-91	AF084530.1	TN	Homo sapiens cyclin-D binding Myb-like protein mRNA, complete cds
	4487	9607	14700	4.0	3.00E-91	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
	4905	10012	15092	1.2	3.00E-91	AL163285.2	TP	Homo sapiens chromosome 21 segment HS21C085
	4905	10012	15093	1.2	3.00€-91	AL163285.2	TN	Homo saplens chromosome 21 segment HS21C085
	1699	. 7924	12004	0.9	2.00€-91	AW845499.1	EST_HUMAN	MR1-CT0056-241199-009-b07 CT0056 Homo sapiens cDNA
	42	5252	10365	1.0	1.00E-91	AL163284.2	I 61	Homo sapiens chromosome 21 segment HS21C084
	1225	6355	11519	1.2	1.005-91	AW449746.1	EST HUMAN	UI-H-BI3-aks-d-01-0-UI.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2735280 3'
	435	7888	10733	0.8	9.00E-92	AW858856.1	EST_HUMAN	RC3-CT0347-220300-015-q12 CT0347 Homo sapiens cDNA
	435	7888	10734	0.8	9.00E-92	AW858856.1	EST_HUMAN	RC3-CT0347-220300-015-g12 CT0347 Homo sapiens cDNA
	1221	6352	11513	2.9	9.00€-92	AJ001689.1		Homo saplens NKG2D gene, exon 10
	1221		11514	2.9	9.00E-92	AJ001689.1	NT	Homo sapiens NKG2D gene, exon 10
_	87	5293	10419	0.7	8.00E-92	W26367.1	EST_HUMAN	26f3 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
	283	Г	10600	2.0	8.00E-92	BE386363.1	EST_HUMAN	
_	2738	Г	13026	0.9		BE396819.1	EST_HUMAN	601290085F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3620469 5'
•	8	5268	10390	0.9	7.00E-92	M60676.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
	236	7884	10552	0.9	<u>.                                    </u>	AB018301.1	NT	Homo saplens mRNA for KIAA0758 protein, partial cds
	236	7884	10553	0.9		AB018301.1	TN	Homo sapiens mRNA for KIAA0758 protein, partial cds
	576	5736		1.3		AF007822.1	NT	Homo sapiens cytopiasmic Seprase truncated isoform mRNA, complete cds
	1259	6388	11549	0.7	7.00E-92	4502384 NT	NT	Homo sapiens B-cell CLL/lymphoma 7b (BCL7B) mRNA
	2139	7249	12455	0.6	7.00E-92	5031570 NT	NT	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA
	2139	7249	12456	0.6	7.00E-92	5031570 NT	NT	
	2517	7613	12815	0:8	7.00E-92	AF167706.1	NT	Homo saplens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds
	2693	7780	12977	1.8	7.00€-92	6005738	NT	Homo sapiens NRAS-related gene (D1S155E), mRNA
	2724	7808	13013	1.0	7.00E-92	AB031007.1	NT	Homo sapiens DNA, MHC class I region, 7.1 ancestral haptotype
	3301		13555	0.9	7.00E-92	4507500 NT	TN	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
	3301	10296	13556	0.9	7.00E-92	4507500 NT	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
	4484	9604	14697	1.6	7.00E-92	S71824.1	NT	N-CAM=145 kda neural cell adhesion molecule (human, small cell lung cancer cell line OS2-R, mRNA, 2960 nt)
	4484	9604	14698	1.6	7.00E-92	S71824.1	NT	N-CAM=145 kda neural cell adhesion molecule [human, small cell lung cancer cell line OS2-R, mRNA, 2960 nt]
	5110	10206	15284	1.5	7.00E-92	)6118	NT	Homo sapiens prospero-related homeobox 1 (PROX1) mRNA
_	19801	CAGO		9.0	5.001-92	5.00E-92  BE390882.1	EST HUMAN	601283012F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3605018 5'

Homo saplens pescadillo (zebrafish) homolog 1, containing BRC1 domain (PES1), Illinux	<u> </u>	-				┪	
Homo saplens pescadilio (zebratish) nomo	NT	7657454 NT	4.00E-93	1.3	11054	5907	755
Folio sapions monoron german	N.	455/8/9 NI	4.00E-93	0.6	10737		437
Homo copions interferon gamma receptor	N-	455/8/9 NI	4.00E-93	0.6	10736	5603	437
	EST_HUMAN	AA459933.1	4.00E-93	1.6		5288	82
zx50e09.s1 Soares, testis_NHT Homo sapiens cDNA clone IMAGE:795688 3' similar to	N	X04201.1	5.00E-93	2.4	13457	8344	3195
Luman skeletal muscle 1.3 kh mRNA for tropomyosin	2	5.00E-93 AL163201.2	5.00E-93	1.0		6586	1459
	EST HUMAN	5.00E-93 AI674184.1	5.00E-93	2.0		6512	1385
	EST HUMAN	5.00E-93  AI674184.1	5.00E-93	2.0	11677	6512	1385
Homo sapiens illines to increase Pos Homo sapiens cDNA clone IMAGE:2314670 3'	NT	AB014511.1	5.00E-93	1.3	11653		1359
Homo sapiens chromosome 21 segment is	Zī	AL163247.2		2.4		- 1	3030
Homo sapiens chromosome 21 coment HS210	S	AF231919.1	7.00E-93	2.1	10560	5434 4	246
	EST_HUMAN	BE388571.1		1.0	13799	8702	3563
	Z,	AF223391.1	9.00E-93	0.5		7700	2610
	EST_HUMAN	AA316723.1	9.00E-93	3.3	ļ	7112	1996
EST188414 HCC cell line (matastasis to liver in mouse) if nonto sapietis core a circ of matastasis to liver in mouse) if nonto sapietis core a circ of matastasis to liver in mouse) if nonto sapietis core a circ of matastasis to liver in mouse) if nonto sapietis core a circ of matastasis to liver in mouse) if nonto sapietis core a circ of matastasis to liver in mouse) if nonto sapietis core a circ of matastasis to liver in mouse) if nonto sapietis core a circ of matastasis to liver in mouse) if nonto sapietis core a circ of matastasis to liver in mouse) if nonto sapietis core a circ of matastasis to liver in mouse) if nonto sapietis core a circ of matastasis to liver in mouse in mouse in mouse in mouse in matastasis core a circ of matastasis core circ of matastasis core a circ of matastasis core circ of circ of matastasis core circ of ci							2020
Homo sapiens ribosomal protein, large, P1	1	4506668 NT		13.0	12342	7141	3007
y/80e08.rl Soares placenta Nb2HP Homo sapiens cDNA Gone IMAGE: 1433/4 3	EST_HUMAN	R78078.1	.1.	<u>- </u> -	13115	2000	1807
yi80e08.r1 Soares placenta Nb2HP Homo sapiens CUNA Clone IMAGE. 1430/4 5	EST HUMAN	R78078.1			344	2000	487
DKFZp434C0414_r1 434 (synonym: htes3)	EST_HUMAN	AL040437.1		2.5		200	3
Homo sapiens one sait export parity (poet	Z	AF136523.1	2.00E-92	0.8	14855	9760	484
Human endogenous retroviral Divo (+1), Willipion Carollete cds	NT	M10976.1		1.0	14401	9317	4191
mRNA	Z,	5803180	2.00€-92	თ .0	13864	8770	3831
110 September 1 (Hsp70/Hsp80-organizing protein) (STIP1),	2	AF231919.1	2.00E-92	1.0	13798	8701	3562
Homo sapiens chromosome 21 unknown mRNA	2	AF231919.1	1	1.0	13797	8701	3562
Horno sapieris cardilloum omens 21 inko		12457		14.0	12913	7713	2623
Homo sapiens syriuecan + (amping protein 1 (	NT	4506860 NT	2.00E-92	1.7	12319	7117	2002
TR:Q12844 Q12844 BREAKFOINT CLUSTER REGION PROTEIN:	EST_HUMAN	AI818119.1	2.00E-92	0.6	12200	7011	188
TR:Q12844 Q12844 BREAKPOINT CLUSTER REGION PROTEIN:	EST_HUMAN	AI818119.1	1	0.6	12199	7011	1894
mig-mas-related (itelian, Colombia, Sanians conditional IMAGE:2413549 3' similar to	Z	S78653.1	2.00€-92	1.0		681 <sub>0</sub>	1686
BUTTIOSSET INITIATION GENOMIC	EST HUMAN	=	1	1.4	11030	5886	732
601118337F1 NIH MGC 17 Homo sapiens cDNA clone IMAGE:3028304 5		BE299190.1	2.00E-92 E	1.4	11029	8	732
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1.2

3.00E-94 AB022785.1 4.00E-94 AI591312.1

> 폭 EST\_HUMAN

> > TR:Q15265 Q15265 PROTEIN TYROSINE PHOSPHATASE;

Homo sapiens ASH2L gene, complete cds, similar to Drosophila ash2 gene

Homo sapiens complement component 5 (C5) mRNA

Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds

Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds

Homo sapiens protein phosphatase 1, regulatory subunit 10 (PPP1R10) mRNA tw11f10.x1 NCI\_CGAP\_Bm52 Homo sapiens cDNA clone IMAGE:2259403 3' similar to

Homo sapiens transcription enhancer factor-5 mRNA, complete cds
Homo sapiens ribosomal protein L27 mRNA, complete cds

5859

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EST\_HUMAN EST\_HUMAN

601177686F1 NIH\_MGC\_17 Homo sapiens cDNA done IMAGE:3532965 5 Homo sapiens DNA for amyloid precursor protein, complete cds Homo sapiens chromosome 21 segment HS21C084

1.00E-93 D87675.1

2903

805 4208

2792

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	DE291303.1	1.000-83	6.0	11562	64 03	2792
			<u> </u>		1	2408
Homo sapiens mRNA for KIAA1425 protein, parual cos	1 00F-93 AB037846.1 NT	1 00F-93	-			
	.00E-93 AF055066.1 NT	1.00€-93	1.5	12722	_1	2415
complete cds	.00E-93 AF231981.1 NT	1.00E-93	1.0	12602	7394	2289
Homo saptens long chain polyunsaturated fatty acid elongation enzyme (need) into the					7	
Homo saplens cysteine-rich repeat-containing protein S52 precursor, mknx, compare was	AF167706.1 NT	1.00E-93	0.6	11617	6452	1323
Inditio sapistis il/podicional protein i taccero (	8923270 NI	1.00E-93	2.2	11507	6347	1217
-1-	8923270 NT	1.00E-93	2.2	11506	6347	1217
Homo sapietis civa id arrivora precision processi, compression mana	D87675.1 NI	1.00E-93	1.1	11163	6003	28 428
EST HUMAN TR. Q62384 Q62384 ZINC FINGER PROTEIN.	_	1.00E-93	1.3	10862	5745	585
CARADOR V1 NICI CIGAP CIL 1 Homo sapiens cDNA clone IMAGE:1672503 3' similar to	/65/016 NI	1.00E-93	0.9	10794	5671	507
nomo sapiens Crix i paguogeno (D.1308E19 C1.1), mRNA	.00E-93  AF238997.1  NI	1.00€-93 /	0.6	10430	5303	96
Homo sapietis CTN i pseudogenie		1.00E-93 /	0.6	10429	5303	96
HUMAN 601116610F1 NIT MGC 10 HUMAN September		2.00E-93 E	1.0	15264	10186	5088
HUMAN   6011 16610F1 NIT MGC 16 Home serions		2.00€-93	0.9	12742	7535	2436
Homo sapiens Cir-associating its Cycopinian	9	2.00E-93	1.0	12400	7195	2083
nomo sapiens circumosomo za segmenta nozacente (CYP) mRNA	AL163285.2 NI	2,00E-93 AL163285.2	2.6	10632	5504	321
Homo sapiens Chromosomo 21 segment HS21CD85		2.00E-93 AL163285.2	2.3	10632	5504	320
Chiprocepus aguniops Hinter of Lagranger HSC1CD85		2.00E-93 AB015610.1	2.8	10503	5377	183
Chlorocebus aemiops mixiva for invosorital protein SAX complete cds		2.00E-93 AB015610.1	2.8	10502	5377	<u>1</u> 8
Homo sapiens inteneurin To receptor 1 (IL 1971) I III NY	2654	4.00E-93	1.4	14179	9094	3962
	7656972 NT	4.00E-93	0.8	12860	7657	2564
Homo sapiens chromosome 21 segment 10210101	AL163301.2 NT	4.00E-93 AL163301.2	0.8	12658	7451	2349
Homo sapiens dysrophili (DWD) Being, celebral blockbeing :	<u> </u>	4.00E-93 AF047677.1	1.8	12244	7051	1834
Momo sapiens nypomencal protein i casor of the second in intron 5	23658	4.00E-93	0.7	11455	6300	1166

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	2.00E-95	2.00E-95	2.00E-95	2.000	2.000	2,000 05	2.000	200000	2000	300F.95	2.00E-95	2.00E-95	2.00E-95	2.00E-95	2.00E-95	2.00E-95	2.00E-95	2.00E-95	CB-200.7	7.000	2000-90	2000	7 00E-95	7 nnE-95	8.00E-95	8.00E-95		9 DOF-95	9 00E-95	9.00E-95	1 00E-94		1.00E-94	1.00E-94	1.00E-94		100	2 200
	5 7661979 NT		AI290264	_	AB03780	1		AF01545					_	BE393873.1	4507512 NT	1202001			Wazaca.	_	_		_		A1700998.1	AI700998.1		7662027 NT	7662027 NT	AF027302.1	BE253433.1	BE253433.1	Al394483.1	A1394483.1	BE295/14.1	AA464805.1		4557556 NT
	79INT	NI CO	EST_HUMAN		N.T	TNO	TNOC	NT	NT	NT	NT NT	S NT	S NT	EST_HUMAN			7 17	7147	NT	N	Z	NI	NT	N	EST_HUMAN	EST HUMAN		N	NT	NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST TOWN	EST HUMAN		NT
	Homo sapieris ninno lai gene processi.	Tibilio septono rigano a rene a modino (KIAAO187), mRNA	WP:T23G7.4 CE03705:	gm01c02.x1 Soares_NhHMPu_S1 Homo sapiens cDNA cione image. 1000000 3 511111111		Homo sapiens unconventional myosin-15 (LOC51168), mRNA	Homo sapiens unconventional myosin-15 (LOC51168), mrive	Homo sapiens Usurpin-gamma mRNA, complete cus	Homo sapiens H factor 1 (complement) (HF1) mixing	Homo sapiens glycine deavage system protein in (all illinorities);	Homo saplens hypometical protein (nosezzo ry), "" (aminomethyl carrier) (GCSH) mRNA	Homo sapiens G protein-coupled receptor 12 (C)		601312161F1 NIH MGC 44 HOURS september 10 (CBR19) mRNA	pseudoinflammatory) (TIMP3) mRNA	Homo sapiens tissue inhibitor of metalloproteinase 3 (Sorsby fundus dystrophy,	Homo saplens KIAA0255 gene product (KIAA0255), mRNA	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA	Homo sapiens H factor 1 (complement) (HF1) mRNA	Human homeobox protein (PHOX1) mRNA, 3' end	Homo saplens chromosome 21 segment HS21CU46	Homo sapiens Ly-6-like protein (CD59) mKNA, complete was	Homo sapiens DNA for amyloid precursor protein, complete cos	Homo sapiens DNA for emyloid precursor protein, complete cris	gb:K00558 TUBULIN ALPHA-1 CHAIN (HUMAN):	gb:K00558 TUBULIN ALPHA-1 CHAIN (TIDIWAY), we09e04.x1 NCI_CGAP_Lu24 Homo sapiens cDNA done IMAGE:2340606 3' similar to	We09e04.X1 NCI_CGAP_Lu24 Homo sapiens conva dulle importante de la convación d	Homo sapiens KIAA0255 gene product (NIAW225), IIIVIS	Homo sapiens KIAA0255 gene product (NIAA0256) mBNA	Homo sapiens TNF-alpha sumulated ABC protein (ABCCC)	601111696F1 NIH MGC 16 Homo sapielis curio della mana complete cds	601111696F1 NIH MGC To Honio Sapiens CDNA clone IMAGE:3352559 5'		TR:008764 008764 ANKYRIN.;	179f03 x1 NCI CGAP Bm23 Homo saplens cDNA clone IMAGE:2105501 3' similar to	175762E1 NIH MGC 17 Homo sapiens cDNA clone IMAGE:3531038 5'	TURBANDE 1 Scares total fetus Nb2HF8_9w Homo sapiens cDNA clone IMAGE:774782 5	Homo saplens E1A binding protein p300 (EP300) mRNA

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243	1868	924	2219	2181	2181	2080	2080	1806	1806	1742	1742	655	4651	730	409	4097	4810	2991	824	824	317	3437	3276	2213	4450	4450	3834	1693	1693	5022	5022
5432	6986	6071			7290	7192	7192					5812		5884	5577		$\neg$		$\neg$	_	$\neg$	$\neg$	П	$\neg$	9570	9570	8971			10123	10123
10558	12170	11229	12541	12502	12501	12396	12395	12113	12112	12043	12042	10940	14858	11026				13245	11132	11131	10628	13691	13529	12535	14669	14668	14070	11998	11997	15196	15195
1.2		1.3	0.7	1.3	1.3	0.9	0.9	0.9	0.9	0.7	0.7	9.0	1.6	0.5	1.2	6.2	1.2	1.0	1.0	1.0	0.9	26.2	1.0	0.9	2.0	2.0	1.0	8.0	0.8	1.0	1.0
3.00E-97	4.00E-97	4.00E-97	1.00E-96	1.00E-96	1.00E-96	1.00E-96	1.00E-96	1.00E-96	1.00E-96	1.00E-96	1.00E-96	1.00E-96	2.00E-96	2.00E-96	2.00E-96	3.00E-96	5.00E-96	5.00E-96	5.00E-96	5.00E-96	5.00E-96	6.00E-96	6.00E-96	6.00E-96	7.00E-96	7.00E-96	7.00E-96	8.00E-96	8.00E-96	2.00E-95	2.00E-95
AB032998.1	5453572 NT	BE004436.1	U51472.2		1.00E-96 M75967.1	AF167706.1	AF167706.1	4503756 NT	4503756	AW955054.1	AW955054.1	Y18890.1	BE148074.1	AL163248.2	4503098 NT	H68656.1	X60812.1	6912735	AB032998.1	AB032998.1	AB032998.1		AL163201.2	BE171984.1	AW404800.1	AW404800.1	AF231920.1	7657185 NT	7657185 NT	AA447931.1	AA447931.1
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Homo sapiens mRNA for KIAA1172 protein, partial cos		CMO-BN0106-170300-293-a06 BN0106 Homo sapiens CUNA	Felis catus superfast myosin heavy chain (sMyHC) mRNA, complete cds	Human hepatocyte growth factor gene, exon 1	Human hepatocyte growth factor gene, exon 1	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds	Homo sapiens flavin containing monooxygenase 2 (FMO2) mKNA	Homo sapiens flavin containing monooxygenase 2 (FMO2) mRNA	EST367124 MAGE resequences, MAGC Homo sapiens cDNA	EST367124 MAGE resequences, MAGC Homo sapiens cDNA	Human endogenous retrovirus type K (HERV-K), gag, pol and env genes	RC3-HT0230-040500-110-g02 HT0230 Homo sapiens CUNA	Homo sapiens chromosome 21 segment HS21C048	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA	yr87h12.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:212327 5'	H.sapiens DNA for monoamine oxidase type A (7) (partial)	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA	Homo sapiens mRNA for KIAA1172 protein, partial cds	Homo sapiens mRNA for KIAA1172 protein, partial cds	Homo sapiens mRNA for KIAA1172 protein, partial cds	Human glyceraldehyde-3-phosphate dehydrogenase pseudogene 3'end	Homo saplens chromosome 21 segment HS21C001	MR0-HT0559-250200-002-d07 HT0559 Homo sapiens cDNA	UI-HF-BL0-acm-d-11-0-UI.r1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3059397 5'	UI-HF-BL0-acm-d-11-0-UI.r1 NIH_MGC_37 Homo sapiens cDNA done IMAGE:3059397 5'	Homo sapiens chromosome 21 unknown mKNA	Homo saplens hypothetical protein (HS322B1A), mRNA	Homo saplens hypothetical protein (HS322B1A), mRNA	zx11d07.r1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:786157 5'	zx11d07.r1 Soares_total_fetus_Nb2HF8_9w Homo saplens cDNA clone IMAGE:786157 5'

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1756		447	399	5163	5069	5	5080	4720	4720	4244	2674	2191	2033	2720	2565	5049	3726	1695	1695	1540	1040	1350		62	62	1255	883	4670	3223	2389	1423	gg	25	856	520	550	
6 6877	7	╗	9 5567	3 10257			10167	9832	T	1	T	Т	Γ.		7658	10149	8863		1	1	1	Т	04.70	5270	5270	6384	6031	9782	8371	7874	7916	900	200	6005	18	4894	
7 12058	T	7	7 10704	7 15327	Γ		7 15243	2 14923	Τ	T	Т	Т	Γ	Π	12861		13956	Γ	T	Τ	T	Т	11644	10392		Γ	Γ	Γ	13480	12693	Γ	1	11188	11165		10805	
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1.00E-98		1.00E-98	1.00E-98	2.000:30	2.000.00	3 00E-08	2.00E-98	1,001	3 00 = 08	200E-98	2 00E-08	2.005-90	2.005-90	3.000	3.001-98	9.00E-90	0.000-90	0.001-90	8 00E 08	8.00E-98	8 00E-98	8 00E-98	8.00E-98	0.UUE-80	0.000	9,000	9.000	1.000	3.005-37			3 NOE-97	3.00€-97	3.00E-97		3.00E-97	
3 N49818.1		AW998611.1		T	1	9055269 NT	9055269 NT			AF21890		7662405 NT	_1	DE204281 1			8.00E-96 JUHHUR. 1	IDAMED 1		AB01700	5031810 NT	5031810 NT	AB033768.1	1,000	4759329 NT	4759329 NT	8393092 NT	1 520000	4507470 NT	5174478 NT	1136255 1	4758813 NI	4502166 NT	4502166 NT		AA042813.1	
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Sittillat to Fith Server content	lyvZstU5.r1 Soares letativet spreat the contein L29 - human;	Tring-Division 10000 1 Tring spiens con the cone IMAGE:243585 5	SW:RL2B_HUMAN P29316 60S RIBOSOMAL PROTEIN L23A.;	M36b04.x1 NCI CGAP Ut1 Homo sapiens cDNA clone IMAGE:2261743 3 Similar to	Homo sapiens protein tyrosine kinase 2 beta (PTK2B) mKNA	mRNA	mRNA	Homo sapiens low density lipoprotein receptor related protein-deleted in tullion (Enroll),		Homo sapiens attractin precursor (ATRN) gene, exon 16	Homo sapiens fatty-acid-Coenzyme A ligase, long-chain 4 (FAUL4) IIIINIA	Homo sapiens KIAA0957 protein (KIAA0957), mRNA	Homo sapiens chromosome 21 segment HS21C002	601172658F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3528134 5	7818H01 Chromosome 7 Fetal Brain cDNA Library Homo saplens cDNA clone 7818H01	Homo saplens mRNA for KIAA0707 protein, partial cds		Human mitochondrial creatine kinase (CKMT) gene, complete cos	Homo sapiens PMS2L16 mRNA, partial cds	Homo sapiens PMS2L16 mRNA, partial Cds	Homo sapiens IL2-inducible T-cell kinase (ITR), ITIKNA	Homo sapiens iL2-Inducible i -cell kinase (i in), ilinivo	Homo sapiens nPAU-colony to lincus for popularism services	DNIA for contidudarcining deiminase type I, complete cds	Homo sapiens Testis-specific XK-related protein on Y (XKKY) mKNA	Homo sapiens Testis-specific XK-related protein on Y (XKKY) mKNA	Homo sapiens cat eye syndrome critical region gene 1 (CECK1), mKNA	PM4-BT0724-010400-008-a12 BT0724 Homo sapiens cDNA	Homo saplens eukaryotic translation elongation factor 1 alpha 1 (EEF 1A I) IIININA	Homo sapiens pericentrin (PCNT) mRNA	Human beta-prime-adaptin (BAM22) gene, exon /	Homo saplens N-myc (and STAT) interactor (Nini), IIIINIX	(APP), mRNA	Lamb explore amyloid heta (A4) precursor protein (protease nexin-II, Alzheimer disease)	amyloid beta (A+) precu	111 11 (A) received notein (protease nexth-II, Alzheimer disease)	zk53c07.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:4853c07.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:4853c07.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:4853c07.s1 zks53c07.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:4853c07.s1 zks53c07.s1 zks

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CI-Troi reasons of the second	III LI BIJ 20-207 0 III s1 NCI CGAP Sub3 Homo sapiens cDNA clone IMAGE:2722164 3	Homo sapiens DKFZP586M0122 protein (DKFZP586M0122), mknx	Homo saplens DKFZP586M0122 protein (DKFZP586M0122), ITINIX		RC3-HT0625-040500-022-b09 HT0625 Homo sapiens Corvo	gene homolog	flanking repeat regions	Homo sapiens X-linked anhidroitic ectodermal dysplasia protein gene (ECX), CXXIII	EST02975 Fetal brain, Stratagene (cat#936206) Homo Sapiells Colon Colon Stratagene (cat#936206)	Homo sapiens chromosome 21 segment HSZ1CV49	Homo sapiens chromosome 21 segment HSZ1C000	xv78b11.x1 NCI_CGAP_Bm53 Homo sapiens CUIVA COITE INFOCULTION	Homo saplens chromosome 21 segment HSZ TCU4/	Homo sapiens chromosome 21 segment HSZTCU4/	Homo saplens chromosome 21 segment HSZ1CU81	Homo saplens fatty acid amide hydrolase (FAAn) gene, exerting		Human Interferon-alpha receptor (Fluir Walpha 1997) Sene Ayon 14	Homo saptens FX500-binding protein 0 (2012) ( Protein Complete cds	Homo sapiens Fraction & Protein & (76kD) (FKBP6) mRNA, and translated products	Homo sapiens univared Median protein 6 (36kD) (FKBP6) mRNA, and translated products	Homo sapiens truncated Mismann-Bick C3 protein (NPC3) mRNA, complete cds	Human Ku (p/u/pou) sudulik ilik (R. Sanotein (NPC3) mRNA, complete cds	Homo sapiens inversecuri organical mona complete cds	nuclear gene encoding mitochondrial protein, complete cds	Homo sapiens short chain L-3-hydroxyacyi-CoA deliyorogeriaso Processor	Human Ku (p70/p80) subunit mRNA, complete cds	ab: M31212 MYOSIN LIGHT CHAIN ALKALI, NON-MUSCLE ISOFORM (HUMAN);	TWITH 1933-30 FEED HN9 Homo saplens cDNA clone IMAGE:2739874 3' similar to	TOTAL 201209-001-004 HT0454 Homo sapiens cDNA	Long saniens mannosidase, alpha, class 2A, member 1 (MAN2A1), mKNA	beta locus, T	H saniens IMPA gene, exon 8	Human protein C inhibitor (PCI-B) mRNA, complete cds	Human protein C inhibitor (PCI-B) mRNA, complete cas	Homo sapiens CD34 antigen (CD34) mRNA	EST388473 MAGE resequences, MAGN Homo sapiens CUNA	Homo saplens SMC (mouse) homolog, Y chromosome (SMC I) III VY	Homo sapiens SMC (mouse) homolog, Y chromosome (SMCY) mRNA

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qf62f09.x1 Scares_testis_NHT Homo sapiens cDNA clone IMAGE:1754633 3' similar to SW:CYT_COTJA P81061 CYSTATIN:  Rat mRNA for short type PB-cadherin, complete cds Rat mRNA for short type PB-cadherin, complete cds QV3-DT0045-140200-082-e11 DT0045 Homo sapiens cDNA QV3-DT0045-140200-082-e11 DT0045 Homo sapiens cDNA Pan troglodytes interferon gamma precursor (linG) mRNA, partial cds Pan troglodytes interferon gamma precursor (linG) mRNA, partial cds Homo sapiens RGH2 gene, retrovirus-like element Homo sapiens RGH2 gene, retrovirus-like element Homo sapiens myotubularin-related protein 1a mRNA, partial cds	i						S S S S S S S S S S S S S S S S S S S			CMAN MAN			
		Homo sapiens myotubulann-related protein to Hillyry, Parker	I will a man a marial ods	Homo sanians RGH2 gene, retrovirus-like element	30a2 Human retina cDNA randomly primed sublibrary Futito sapiets contains	Pan troglodytes interferon gamma precursor (iin b) minuto, paraticos con a	QV3-D10045-140200-062-11 0100-011-01-01-01-01-01-01-01-01-01-01-0	TODAS Homo sapiens cUNA	Rat mRNA for short type PB-cadherin, complete cas	SW:CYT_COTJA P81061 CYSTALIN:	gf62f09.x1 Soares_resus_NTT FIGURE September 1	The spring cond iMAGE:1754633 3' similar to	

		1.00E-102 AL 103303:2	1.005-10	1.1	10643	5519	338	
Homo sapiens chromosome 21 segment HS21C103	2 1700 IV.	20 41 463303	1.00=-101			10068	4965	
Homo sapiens bulyrophilin, subfamily 2, member A1 (51 N2A1), illrive	5021460 NT		1.00=101		15141	10068	4965	
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Homo sapiens ASH2L gene, complete cds, similar to Drosophilia asit; gotto		1 100,000	1.00		Γ.	8895	3757	
Homo sapiens soluble neuropilin-1 mRNA, complete cus		1.00E-101 AF145712 1	1.000		Γ.	7798	3354	_
Homo sapiens RIBIIR gene (partial), exon 12		1.00E-101 A 1237744.1	1.00		Γ	7798	3354	
Homo sapiens RIBIIR gene (partial), exon 12	N.	1.00E-101 AVV 803356	1.000	1.7	Γ.		3334	_
EST377629 MAGE resequences, MAGI Homo sapiens CUNA	100	ANAIGE	1.00€-101	2.5		П	3167	
Homo sapiens gamma-glutamyttransferase 1 (GGT1) mRNA	2270	CZCZWA	1.00E-101	12.1		$\neg$	2925	_
			1.005-10	0.9	13001	_	2714	_
Homo sapiens RIBIIR gene (partial), exon 12		1.00E-101 AUZUTTAA	1.000	0.9	13000	7798	2714	_
Homo sapiens RiBiiR gene (partial), exon 12		1 01070.	1.000	1.6	12867	7665	2572	_
Homo sapiens EWS, gar22, rrp22 and barn22 genes	N,	V07848	1.000	c.e	12612	7940	2301	_
Homo saplens A kinase (PRKA) anchor protein 6 (AKAPO), Illinos	5729892 NT		1.000-101	0.5	12324	7124	2010	
H. saplens gene encoding La autoantigen	NT	-1	1.00	9.5	12209	7019	1901	
Homo sapiens carboxypeptidase A1 (pancreatic) (CFA I) III NAS	4502996 NT	T	1.00	0.9	12016	6835	1712	_
Homo sapiens KIAA0569 gene product (KIAA0569), ITIKIYA	7662183 NT		1.000	0.9	12015	6835	1712	
Homo sapiens KIAA0569 gene product (KIAA0569), IIINVA		7	1.000	0.0	11328	6176	1036	-1
qg99e09.x1 Soares NFL T GBC S1 Homo sapiens colve collection	EST HUMAN	_	1.000	21.2	11211	£309	908	
Homo sapiens of cardiac alpha-myosin heavy chain gene	NT NT	720656 1	1.00E-101	1.3	11144	5984	835	_
Homo sapiens priosprioritorsylaminolmidazole synthetase (GART) mRNA synthetase, phosphoribosylaminolmidazole synthetase	NT	<u> </u>						—т
in a delicensmide formyltransferase, phosphorbosylglychamide	7657454 NT	765	1.00E-101	1.3	11053	5906	754	
Homo sapiens pescadillo (zebrafish) homolog 1, containing BRC1 domain (FES1), IIII (FES1)			1:001	آة	DBBOL	5843 3	688	Т
Homo sapiens ventral anterior nomeopox 2 (VAX2), IIII (VAX2)	7110734 NT	711	1,005-101	10	10979	5843	688	
Homo saplens ventral anterior homeobox 2 (VAX2), ITINIX	7110734 NT	7000	1.000	1.2	10954	5827	671	П
Homo sapiens mRNA for KIAA0446 protein, paruai cus	N	1000701	1.001-101	1.2	10404	5277	70	٦
Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mknx	7110714 NT	711	1.00E-101	1.2	10403	5277		П
Homo saplens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mKNA	3032 104 NT	36	1.00E-100	3.1	15198	10125		T
Homo sapiens small optic lobes (Drosophila) homolog (SOLH) mKNA	5032104 NT		1.00E-100	3.1	15197	10125		Т
Homo sapiens small optic lobes (Drosophila) homolog (SOLH) mXXX	TIN YOU COCH		1.00E-100	1.9	14348	9269	4143	T
Homo sapiens foilicle stimulating hormone receptor (FSHK) mKNA	NT COTA	1.00E-100 AF-05/35#.1	1.001-100	1,5	14328	9242	4116	П
Homo sapiens myotubularin-related protein 1a mkNA, paruai Cus	NT :	011070.1	1.00E-100 D1 10/0.	2.5	_	8137	2985	٦
Homo sapiens RGH2 gene, retrovirus-like element		744078 1	1.00E-100 WZ0436:	ļ.	12766	7562	2464	
30a2 Human retina cDNA randomly primed sucitorally ribility september 2	EST HUMAN	WORKEN 1	200	=	12692	7489	2388	
Pan troglodytes interferon gamma precursor (initia) filmus, parians con control		1.00E-100 AF164788 1	200	1	12607	7398	2294	
QV3-DT0045-140200-082-611 DT0045 Homo sapielis CDV5	EST HUMAN	1.00E-100 D00070.1	1.00E-100 D03778	0.5		7304	2195	П
Rat mRNA for short type PB-cadherin, complete cus	Į	D83349 1	200	$\perp$	11826	6659	1533	
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of62(09,x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE: I CHOSS S SILLING								

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9 5739	5739	5424	5424	9056			$\neg$	7	8477			T	П	П	7	П	$\neg$		$\Box$ T	$\neg$	Т	$\neg$	7367		П		╗	_1	1	5762
10856	10855	10549	10548	14143	13955			П	13590	12872	П	12572	12241	12240	12175		10521	10426	15237	14526	14346	13279	12577	12576	12476	11694	11391	11058	11047	10882
1.1	1.1	0.9	0.9	3.0	1.2	2.4			3.4	0.9	8.0	. 0.6	1.3	1.3	1.0	8.0	0.8	2.8	=	2.1	1.5	1.5	1.3	1.3	0.7	33.0	0.7	1.5	0.7	0.9
1.00E-10	1.00E-104	1.00E-10	1.00E-10	1.00E-103	1.00E-103	1.00E-103	1.00E-10	1.00E-10	1.00E-10	1.00E-10	1.00E-10	1.00E-103	1.00E-103	1.00E-103	1.00€-103	1.00E-10	1.00E-103	1.00E-10	1.00E-10	1.00E-10	1.00E-102	1.00E-102	1.00E-102	1.00E-102	1.00E-102	1.00E-102	1.00€-102	1.00E-102	1.00E-102	1.00E-102
1.00E-104 AA496139.1	4 AA496139.1	1.00E-104 AL037549.3	1.00E-104 AL037549.3	3 T23683.1	3 AA485663.1	3 AF023861.1	1.00E-103 AL048453.2	1.00E-103 AB040892.1	1.00E-103 AW298245.1	1.00E-103 N32770.1	1.00E-103 AF060568.1	5803184 NT	4502428 NT		7657592 NT	1.00E-103 AF012872.1	5453793 NT	1.00E-103 D87078.2	1.00E-102 R66488.1	1.00E-102 BE251310.1	1.00E-102 AL163207.2	7661979 NT	1.00E-102 AI950528.1	1.00E-102 Al950528.1	1.00E-102 AF182645.1	1.00E-102 BE408447.1	1.00E-102 M10976.1	4557534 NT	1.00E-102 D30612.1	1.00E-102 BE252470.1
EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	3	EST_HUMAN	N	EST_HUMAN	EST_HUMAN	NT	NT	3 NT	NT	TN	Z,	NT	NT	EST_HUMAN	EST HUMAN	NT	NT	EST_HUMAN	EST_HUMAN	N <sub>1</sub>	EST_HUMAN		N,	TN	EST_HUMAN
TR:G487738 G487738 PUTATIVE POTASSIUM CHANNEL SUBUNIT.:	TR:G487738 G487738 PUTATIVE POTASSIUM CHANNEL SUBUNIT.;	DKFZp564H1072_r1 564 (synonym: hfbr2) Homo sapiens cDNA clone DKFZp564H1072 5'	DKFZp564H1072_r1 564 (synonym: hfbr2) Homo sapiens cDNA clone DKFZp564H1072 5'	seq340 b4HB3MA-Cot109+10-Bio Homo sapiens cDNA clone b4HB3MA-Cot109+10-Bio-7 3'	ab10d12.s1 Stratagene lung (#937210) Homo sapiens curva cione invasce. Orogen to contains element LTR10 repetitive element;	Macaca mulatta cyclophilin A mxNA, complete cus	DKFZp586J1124_r1 586 (synonym: hute1) Homo sapiens CUNA cione UNFZp586J1124_r1 586 (synonym: hute1) Homo sapiens CUNA cione UNFZp586J1124_r1 586 (synonym: hute1) Homo sapiens	Homo sapiens mRNA for KIAA1459 protein, partial cds	UI-H-BW0-ajt-h-11-0-UI.s1 NCI_CGAP_Sub6 Homo saplens cDNA done IMAGE:2733165 3'	yw91d08.s1 Soares_placenta_8to9weeks_2NbHP8to9W Homo sapiens culva ciolie IMAGE:259599 3'	Homo saplens promyelocytic leukemia zinc tinger protein (PLZF) gene, complete cus	Homo sapiens synaptophysin-like protein (STPL), mRNA				Homo sapiens phosphatidylinositol 4-kinase 230 (pietx30) mittiva, complete was	Homo sapiens nucleolar protein (KKE/D repeat) (NCP56) mKNA	Homo sapiens mRNA for KIAA0235 protein, partial cds		601107843F1 NIH MGC 16 Homo sapiens cDNA cione IMAGE: 3943002 3	Homo saplens chromosome 21 segment HS21C007	Homo sapiens KIAA0187 gene product (KIAA0187), mRNA	wx51e07.x1 NCI_CGAP_Lu28 Homo sapiens cUNA cione invasc547.547 Serimen to Sw:GG85_HUMAN_Q08379 GOLGIN-95. ;contains element MER22 repetitive element ;	SW:GG95_HUMAN Q08379 GOLGIN-95. contains element MERC2 repetitive element;	Homo sapiens chondrosarcoma-associated protein 2 (USA2) mixta, complete cos	601299982F1 NIH MGC 21 Homo sapiens CUNA Cone IMAGE 3023901 3	Human endogenous retroviral DNA (4-1), complete retroviral segment	Homo sapiens down-regulated in adenoma (UKA) mKNA	Homo sapiens mRNA for repressor protein, partial cds	601108292F1 NIH_MGC_16 Homo saptens cDNA clone IMAGE:3344326 5'

	122	1,006-100 300140.1	1.00E-100	0.8	10866	9 5749	589
Human dihydrofolate reductase pseudogene (psi-hd1)	הטן הטועקון	1.00E-106 AW965556.1	1.00E-108	0.6		1 5695	531
EST377629 MAGE reseauences, MAGI Homo sapiens cDNA	127	062789	1.00E-106	0.9	10529	2 5405	212
Homo sanians hypothetical protein FLJ11316 (FLJ11316), mRNA		Alboous	1.005-106	0.5		8 5392	198
1079c01 x1 NCI CGAP Ut1 Homo sapiens cDNA clone IMAGE:2215008 3	TOT HIMAN	1.00E-106 AVV 503206.1	1.00E-106	10	Г	5 5341	145
UI-HF-BN0-akt-q-07-0-UI.r1 NIH MGC 50 Homo sapiens cDNA clone IMAGE:3078348 5	HIMAN	1.00E-105 ABO 10335.1	1.00=-105	1.3	15222	1 10144	5161
Homo saplens mRNA for KIAA0796 protein, partial cds	212	1.00E-105 AB020673.1	1.00E-105	2.2		5 10193	5095
	1	1.00E-103 ABO 10339.1	1.005-103	1.0	Г	10144	5044
Homo saplens mRNA for KIAA0796 protein, partial cds	NT.	AD016330 1	1.001-105	3.7	Г	5 9962	4855
Homo sapiens chromosome 21 segment HS21C008		1.00E-105 Avveo 1000.	1.000-103	2.2	14221	9139	4008
EST373761 MAGE resequences, MAGG Homo sapiens cDNA	EST HUMAN	AW061688 1	1.000	9 6	Г	T	3307
Homo sapiens bromodomain adjacent to zinc finger domain, 26 (BAZZB), TIKNA	NT	2007052	1000	2 6	Γ	Т	3307
Homo sapiens bromodomain adjacent to zinc finger domain, 28 (BAZZB), mKNA		7304922	105	200	Τ	1	2975
Homo saplens 959 kb contig between AML1 and CBR1 on Circuitosoffie z rqzz, segment me	<u> </u>	1 00E-105 A.1229041.1	1 005-105	<b>ာ</b>			
1010000331101,00000 24029: segment 1/3	בטן חטמאוע	1.00E-105 AA584808.1	1.00E-105	0.9		$\neg$	2689
notified NCI CGAP Phet Home sabiens cDNA clone IMAGE:1100265 3'		J04977.1	1.00E-105 J04977.1	0.6	12460	$\neg$	2142
	N.	D50918.1	1.00E-105 D50918.1	0.6	12187	$\neg$	1884
Limpa mRNA for KIAA0128 gene, partial cds		AL 163280.2	1.00E-105	1.2	12085	6898	1777
Homo spriens chromosome 21 segment HS21C080		1.00E-105	1.00=-105	5.7	10309	5208	419
Homo saplens Meis1 (mouse) homolog (MEIS1) mRNA	NT	4505150	1.00E-103	1.0	10594	7859	277
(APP), mRNA	ZT	A 700	1	•			
Homo sabiens amyloid beta (A4) precursor protein (protease nexin-li, Alzheimer disease)		1.00E-104 (A4400-020:-	1.000-104	2.8		9846	4735
TR:Q13541 Q13541 4E-BINDING PROTEIN 1.	EST HUMAN	AW054808 1		<b>)</b>			
ws60d04.x1 NCI CGAP Bm25 Homo sapiens cDNA clone IMAGE:2501575 3' similar to		1.00E-10# (Ar 201920:1	1.000-104	9.9	14715	9623	4504
Homo sapiens chromosome 21 unknown mRNA	Z :	1.005-104 75 201020:	1.000	8.0	14714	Г	4504
Homo saplens chromosome 21 unknown mRNA	NT	AE331020 1	200	2 2	14409	94.5	4280
Human mRNA for fibronectin (FN precursor)	NT	X02761.1	1 00E-104 X02761.1	3 0	14080	7868	3861
Homo sapiens mRNA for KIAA1172 protein, partial cos	NT.	4 00€ 404 AB032998 1	1 000 104	3 -	13/33	0808	3550
Homo sapiens mRNA for KIAA1276 protein, partial cos	Z,	1 00F-104 AB033102.1	1 00=-104	3 6	10/02	8	3550
Homo sapiens mRNA for KIAA1276 protein, partial COS		AB033102.1	1 00F-104 AB033102.1	3 2	333	9489	3345
EST21658 Adrenal gland tumor Homo sapiens cDNA 5' end	EST HUMAN	A 319436 1	1.00E-104 A 4319436 1			8037	2886
H.sapiens gene encoding phenylpyruvate tautomerase II	Y	V11181 1	1.00E-104 M3407 1.1	S o	13091	7993	2842
Human lymphocytic antigen CD59/MEM43 mRNA, complete cds	NT.	10.0	1.00=-104	0.6	12691	7488	2387
Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mkn/A	ST.	24570	1.000-104 21 101 100	17.	12630	7421	2318
Homo saplens cysteine-rich repeat-containing protein Soz precursor, imake, company	3		3				
	N		1.00E-104 AF167706.1	1.2	12629	7421	2318
Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds				1			714
Human lymphocytic antigen Cubaring miles, with the	NT		1.00E-104 M34671.1	26	19464	735.7	3447
TR:Q13541 Q13541 4E-BINDING PROTEIN 1.	EST_HUMAN		1.00E-104 AW054828.1	1 9		7016	1808
ws60d04.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:25015/5 3 SIIIIIIdi 10			1.000-104	c.	12149	6963	1845
Homo sapiens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mKNA	NT	ASO2428 NT	1000				

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1257	953	868	796	614	909	264	234	222	5183	4497	3952	3952	3840	3394	3394	3350	3328	3143	3143	2911	2911	2795	2795	2729	2559	2557	2456	2269	2075	1762	1762	10/4	1000	100	800
7 6386	3 6099		5947	5772	5764	5451	5425	2 5414	10275		2806	9085	8976		8536	8494	8472		1	1	1		6541			7651	7555	7375	7187	6883	6883	07.90	2000	623	5740
6 11547	11256	11176	11097	10893				10535		14708	14167	14166	14076		13641	13605	13585	Γ	7	Γ	13167	11716	11715	13019	12856	12854	12761	12584	12390	12066	12065	19.0	3701	1188	10866
0.8	3.6	1.2	0.9	0.6	1.1	==	1.2	0.5	1.2	1.2	7.2	7.2	1.8	1.0	1.0	3.0	0.8	1.2	3 2	2 2	5.0	=	=	1.5	0.7	1.3	0.6	3.0	==	1.9	. 1.9		16	0	1.2
1.00E-1	1.00E-1	1.00E-10	1.00E-10	1.00E-1	1.00E-107	1.00E-107	1.00=-10/	1.00E-107	1.006-10	1.00E-10	1.00E-10	1.00E-10	1.00E-10	1.00E-10	1.00E-10	1.00E-10	1.005-10	1.000	1.000-106	1.000	1.000-10	1.00E-106	1.00E-106	1.00E-10	1.00E-10	1.00E-10	1.00E-106	1.00E-106	1.00E-106	1.00E-106	1.00E-106		1.00=106	1.00E-106	1.00E-106
1.00E-107 AB032253.1	1.00E-107 AF154121.1	1.00E-107 X60459.1	1.00E-107 X60459.1	1.00E-107 AF155103.1	)7 4620603 N1	X60459.1			L41644.1	1.00E-106 BE144286.1	1.00E-106 AW9/4650.1	1.00E-106 AW974650.1	1.00E-106 BE145043.1	1.00E-106 AB033104.1	1.00E-106 AB033104.1	1.00E-106 AW503073.1	1.00E-100   About 000 1.1	AD000004 4		200005	1.00E-106 AB037747 1	5 ADOST747 4 NT		A1276526	1.00E-106 BE313721.1	1.00E-106 U64675.2	AF003528.1	4504104111	BE14428	1.00E-106 AA527446.1	AA527446.1		.00E-106 U48724.1	1.00E-106 AF145712.1	1.00E-106 J00146.1
NT	N <sub>T</sub>	2	2	2	NIT	3 N	NT.		2 2	EST TOWN	EST HUMAN	EST CHIMAN	EOI HOWAN	Z Z	2	EST_HUMAN		TIN	5 NT	NT .	Z	27	NT.	EO! TOWNIN	11		N.T		EST HOMAN	III .	EST_HUMAN		NT	NT	NI
ds	complete cds  Homo sapiens BAZ1B mRNA for bromodomain adjacent to zinc finger domain 18, complete	Homo sapiens sodium-dependent high-affinity dicarboxylate transporter (NADC3) mRNA,	Turnen IENAS cano for Interferon alpha/beta receptor	Human IENAR cane for interferon alpha/beta (eceptor	Lomo espiene NY-REN-25 antigen mRNA, partial cds	Long springs perconal cell adhesion molecule (NRCAM) mRNA	Human IENAR name for interferon alpha/beta receptor	Homo saniens to pseudoautosomal region; segment 1/2	Homo seniors reticulocalbin 1. EF-hand calcium binding domain (RCN1), mRNA	United the Research At 1			ECT386875 MAGE rasenuences. MAGN Homo sapiens cDNA	PMA HT0101-281099-002-406 HT0191 Homo sapiens cDNA	Homo copione mBNA for KIAA1278 protein, partial cds	Unin proping mBNA for KIAA1978 protein partial cds	UNIT BEG SE DE DE IL 14 NIH MGC 51 Homo sapiens cDNA clone IMAGE:3074170 5	Homo saplens gene for activin receptor type IIB, complete cds		Homo sapiens hypothetical protein FLJ11273 (FLJ11273), mRNA	Homo sapiens mRNA for KIAA1326 protein, partial cds	Homo saplens mRNA for KIAA1326 protein, partial cds	Homo saniens clutathione S-transferase theta 1 (GSTT1), mRNA	Homo saniens clurathione S-transferase theta 1 (GSTT1), mRNA	175540 v4 Scares NhHMPu S1 Homo sapiens cDNA clone IMAGE:1878307 3'	Homo sapiens speriil inelitulare process of the cone IMAGE:3502117 5'	flanking repeat regions	Homo sapiens X-linked anhidrolitic ectodermal dysplasia protein gene (EDA), exon 2 and	Homo saniens clutathione S-transferase theta 1 (GSTT1), mRNA	contains element LTR3 repetitive element;	contains element LTR3 repetitive element:   ng41c05.s1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:307332 3 Sillillar to	Human epidermal growth factor receptor (EGFK) precursor-minitary, expenses 21 classics of the last to	Homo saplens soluble neuroplin-1 mkNA, complete Cas		

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100	2581	2204	2194	1831	1185	1184	583	583	459	58	4868	4699	4555	4425	4425	4065		3742	3158	3158	2378		7077	2022	2282	2012	1244	939	3754	3081	2076	2976	2487	2487	2161	1797	1797	1718	
Г	7874		4 7303	1 6950	5 6317	4 6317	$\Gamma$		9 5625	Г	9975	9811	9673	9546	Г	Г			_ 1	8307	7480		Т	Т	7388	7126	6373	6086	8892	8212	2137	8127	7584	7 <u>8</u> 2	7270	6917	6917	68 <u>4</u> 1	
l	12876	12525		Г	Γ		Γ.	П		Γ		Γ	14764	14639	Γ	Г		13969	13418	13417	12682		12000	12505	12595		11531	11243	13982	13311	13234	13233	12790	12789	12481	12104	12103	12020	
١	6 1.4	5 0.7					Γ							2:0		Τ		0.9		1.9			T			7.0	0.5	1.5	3.9	2.6	1.9	1.9	0.9	0.9	1.3	1.0	1.0	0.5	
	1.00E-1	1.006-109	1.00=-10	1.00	1.000	1.000	1.000	1.000-10	1.005-109	1.000-10	1.000	1.00=-108	1.00E-10	1.000	1000	1000	1 005-10	1.00E-108	1.00E-108	1.002-108	1.000-100	2		1.00E-108	1.00E-108	1.00E-108	1.00E-108	1.00E-108	1.00E-107	1.00E-107	1.00E-107	1.00E-107	1.00E-107	1.00E-107	1.00E-107 U13729.1	1.00E-107	1.00E-107	1.00E-107	
	1.00E-109 AI022328.1	J9 Y 17 123.1		1.00E-109 D 100-0-	1.00E-109   D13643 2	1.00E-109 M28600 1	1.00E-109 AB023210.1	1.00E-109 AB023216.1	AD000016 1	1.005-109 0000771	1.00E-100   Pacococ.	0 1000005 1	AA18696		1 005 108 1172981 1	1 005 108   172961.1	1 00E-108 AW664438.1	34556551NI				DE 206604 1		1.00E-108 AF138303.1	1.00E-108 AF138303.1	1.00E-108 AI089548.1	1.00E-108 Y18000.1	1.00E-108 BE296042.1	.00E-107 AF020671.1	5902097	1.00E-107 AW842451.1	1.00E-107 AW842451.1	4759153 NT	4759153 NI	U13729.1	1.00E-107 AB007922.2	1.00E-107 AB007922.2	1.00E-107 AF136275.1	
	EST_HUMAN		1	NT	NT.	21	NI	NI :			3	NT I	EST_HUMAN	- 1	NI	NT	EST HUMAN	O INT	A NT		11.	EST HUMAN		NT	Z,T	EST_HUMAN	2	ILS! HOWAN		7 NT	EST_HUMAN	EST HUMAN	NI I	N	2	2	Z	2	1. 100
	IMAGE:1654536 3' similar to TR:002197 002197 CIRCULATING CATRODIC ANTICENT.	ow95a01.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone	Homo sapiens SNF5/INI1 gene, exon 6		Homo sapiens mRNA for KIAA0018 protein, partial cds	Homo sapiens nucleolar phosphoprotein B23 (NPM1) mRNA, complete cas		Homo sapiens mRNA for KIAA0999 protein, partial cds	Homo sapiens mRNA for KIAA0999 protein, partial cds		Human mRNA for KIAA0220 gene, partial cds	Homo sapiens PSN1 gene, alternative transcript	Homo saplens KIAA0187 gene product (KIAA0187), mRNA	zp66f01,r1 Stratagene endothellal cell 937223 Homo sapiens cDNA cione IMAGE:625177 5'	oha gene, exon z	Human hepatocyte nuclear factor 4-alpha gene, exon 2	SW:3BP1_MOUSE P55194 SH3-BINDING PROTEIN 3BP-1.		Homo sapiens pericentriolar material 1 (PCM1) mRNA		protein	mRNA, complete cds (MOUSE):	bb25b10.x1 NIH_MGC_14 Homo sapisits CONN Cond in 105277 Mouse hexokinase	Homo sapiens deconn Dillinian, will place was, and live General MAGE-2963899 3' similar to	Homo sapiens deconir o iniver, complete ode alternatively spliced	qb06f02.x1 Soares_pregnant_uterus_NBHFU Horrico septema curso compensation and property of mRNA complete cds. attematively spliced	notice september 1 = general Mage: 1695483 3'	Company NEO DEDE	17 Homo sa	Homo sapiens SM13 (Supplessor of Illin We of Joseph			Polito Sapieris 37:60:200-201-d03 CN0031 Homo sapiens cDNA	Homos spiers synaptosomal-associated protein, 29kD (SNAP29) mRNA	Tomas contains superior mal-associated protein, 29kD (SNAP29) mRNA	Liman dipentidy peolidase IV (CD26) gene, exon 20	Lorgo saniene mRNA for KIAA0453 protein, partial cds	Lomo saniene mRNA for KIAA0453 protein, partial cds	Lorno saniens cathensin Z precursor (CTSZ) gene, exon 3

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3048	2810	1879	1258	1163	516	291	104	75	¥	ş	ω	4984	4984	4839	4496	4304	4070	4070	4054	3911	3911	3767	3474	3342	3342	3020	2907	2907	2582	2581
	7961	6997	6387	6298	5680	5477	5212	5281	5243	5243	5212	10087	10087	9946	9616	9428	9197	9197	9181	9046	9046	8905	8615	8486	8 8 8 8	8172	8057	8057	7675	7674
		12182	11548	11453	10801	10608	10313	10408	10350	10349	10313	15159	15158	15035	14707	14518	14282	14281	14264	14134	14133		13727	13601	13600	13272	13163	13162	12878	12877
1.1	1.0	0.5	1.0	==	1.2	0.9	0.6	10.0	1.3	1.3	0.5	0.9	0.9	1.0	1.2	2.3	1.0	1.0	3.7	1.5	1.5	1.5	1.2	1.5	1.5	1.9	1.3	1.3	1.0	1.4
1.00E-110	1.00E-110	1.00E-110	1.00E-110	1.00E-110	1.00E-110	1.00E-110	1.00E-110	1.00E-110 C04498	1.00E-110	1.00E-110	1.00E-110	1.00E-108	1.00E-109	1.00E-100	1.00⊑-109	1.00E-109	1.00E-109	1.00E-108	1.00E-108	1.00E-100	1.00E-109	1.00E-108	1.00E-108	1.00E-109	1.00€-100	1.00E-109	1.00E-108	1.00E-109	1.00E-109	1.00E-109
.00E-110 U78027.1	4503098 NT	1.00E-110 BE379477.1	1.00E-110 AB032253.1	5031620	1.00E-110 U84550.1	1.00E-110 D87291.1	7549804 NT	C04498.1	5803073 NT	5803073 NT	7549804	1.00E-109 BE293673.1	1.00E-109 BE293673.1	1.00E-109 R15400.1	7662083 NT		1.00E-109 AA662274.1	1.00E-109 AA662274.1	1.00E-109 AI655417.1	1.00E-109 AB011181.2	1.00E-109 AB011181.2	1.00E-109 BE146144.1	1.00E-109 AF240698.1	1.00E-109 AW893192.1	1.00E-109 AW893192.1	1.00E-109 N85190.1	1.00E-109 BE243668.1	1.00E-109 BE243668.1	4504206 NT	1.00E-109 AI022328.1
NT	B NT	EST_HUMAN	N <sub>1</sub>	UNIT	N	NT	NT	EST_HUMAN	NT	NT	‡ NT	EST_HUMAN	EST_HUMAN	EST_HUMAN		S NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	S	NT	EST_HUMAN	TN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	SINT	EST_HUMAN
Homo saplens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds	Homo saplens chondroltin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA	601237545F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609683 5	Homo sapiens BAZ1B mRNA for bromodomain adjacent to zinc inger domain 1B, complete cds	Homo sapiens calcitonin receptor-like (CALCRL) mRNA	Human dystrobrevin (DTN) gene, exon 20	Human mRNA for inward rectifier potassium channel, complete cds	Homo sapiens delodinase, iodothyronine, type II (DIO2), transcript variant 2, mRNA	C04498 Human heart cDNA (YNakamura) Homo sapiens cDNA clone 3NHC3467	Homo sapiens leucine-zipper-like transcriptional regulator, 1 (LZTR1), mRNA	Homo sapiens leucine-zipper-like transcriptional regulator, 1 (LZTR1), mRNA	Homo sapiens delodinase, lodothyronine, type II (DIO2), transcript variant 2, mRNA	601186922F2 NIH MGC 15 Homo sapiens cDNA clone IMAGE:2959636 5	601186922F2 NIH_MGC_15 Homo saplens cDNA clone IMAGE:2959636 5'	ya48e06.r1 Soares Infant brain 1NIB Homo saplens cDNA clone IMAGE:53057 5	Homo sapiens KIAA0377 gene product (KIAA0377), mRNA	Homo sapiens guanylate cyclase activator 1A (retina) (GUCA1A) mRNA	nu93c12.s1 NCI_CGAP_Pr22 Homo sapiens cDNA clone IMAGE:1218262 3' similar to SW:GTT2_HUMAN P30712 GLUTHATHIONE S-TRANSFERASE THETA 2;			Homo saplens mRNA for KIAA0609 protein, partial cds	Homo sapiens mRNA for KIAA0609 protein, partial cds	MRO-HT0209-110400-108-a04 HT0209 Homo sapiens cDNA	Homo saplens retinol dehydrogenase homolog isoform-1 (RDH) mRNA, complete cds	CM3-NN0009-190400-150-f10 NN0009 Homo sapiens cDNA		J2816F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA cione J2816 5 similar to ZINC FINGER PROTEIN ZNF43	TCBAP1D1367 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP1367	TCBAP1D1367 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP1367	Homo saplens guanylate cyclase activator 1A (retina) (GUCA1A) mRNA	ow95a01.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1654536 3' similar to TR:002197 002197 CIRCULATING CATHODIC ANTIGEN.;

	/65/000 N1		1.00E-113	$\prod$	П		5035
Homo sapiens v-ets avian erythropiasto	DES NT		1.005-113	1.0	5 15209	٠.١	5035
Homo sapiens vets avian eryunobiasusis visus E26 oncogene related (ERG), mRNA	065 NT	7657065	1.00		2 13345	8242	3091
Homo sapiens mkny for polarivo in the E26 on	N	1 00E 113 A.I223948.1	1.000		Γ	7504	2405
Homo sapiens PLF gene	NT T	A 100697	200	   	Г	8 7161	2048
Homo sapiens interieron regulatory	5453699 NT		1005-113	=	Γ	3 6650	1523
ao95/01.x1 Schiller meningionilla nomo september (IRF6) mRNA	EST_HUMAN	+ 00E-113 AI365586.1	1.000	2.2	Γ.		927
Human X-linked phospiloglycerate strices of DNA c	N.T	1.00E 113 M11965.1	1.000	1.5		5 5879	725
ao95f01.x1		1.00E-113 A1365586.1	1005113	1	Γ	5 5879	725
ao95f01.x1 Schiller meningioma nomo sapiens cDNA clone IMAGE:1953625 3	EST HUMAN	1,00E-112	1.00=112	0.9		0 10264	5170
mRNA	69_NT	9055269			$\neg$	$\neg$	
Homo saplens low density lipoprotein receptor related Prown.	1	1.00E-112 ABUSTOSE:	1.00E-112	5.1		Т	4646
Homo sapiens mRNA for KIAA1411 prote	NI.	1.00E-112 AB03/032.1	1.00E-112	5.1	$\neg$	Т	4646
Homo sapiens mRNA for KIAA1411 prote		1.00E-112 BE0/60/3.	1.00E-112	0.8	٦	Т	3809
MR2-BT0590-080300-113-f09 BT0590 Horris Saprens	EST HUMAN	AF 24/002.	1.00E-112	1.2	٦	Т	3135
Homo sapiens SR-related protein LUZ IIINN, parent	Z	1.00E-112 AF047663 1	1.00=-112	0.9	12763	_	2460
Homo saplens DNA-dependent UNA polyfillerase (ii)	Z	AE004743 1	1.00=-112	21	11857	$\neg$	1658
Homo sapiens KIAA0440 protein (NIXXVIII	S NT	7662125 NT	1.000-112	2.1	11956		1658
Homo sapiens KIAA0440 protein (NIAA0410) mBNA	SNT	7662125	1.000-112	0.6	11337	6186	1046
ZINC FINGER PROTEIN 135	SWISSPROT	050742	1.00E-112 D52742	1.0	11285		985
Homo sapiens HTRA senne prolease (11001) B	NT N	E157623 1	1.000	1.5	10870	5752	5 <u>2</u>
Human steroidogenic acute regulació (PR	N,	129103.1	1.00E-112 U29103.1	5	10869	5752	594
Human steroidogenic acute regulatory protein (StAR) gene, exon 5	NT T	129103.1	1.00E-112 1129103.1	i e	10867	5750	592
Homo sapiens acetyl-Coenzyrile A Calvox	4 NT	4501854 NT		40	14441	9359	4235
Human enkephalin B (enkb) gerre, excit T	NT.	K02268 1	1.005-111	=	14292	9207	4080
Homo saplens DKFZP434D 150 protein (c)	NT	7661569 NT	1.000	1.2	13875	8781	3842
Homo sapiens sex comb on midley indicing .	NT NT	6912641 NT	1.000	1.2	13874	8781	3642
Homo sapiens sex comb on midleg homolog 1 (SCMH1), mRNA	- 1	6912641 NT	1.00E-111 AAZ 13434.	2.0	11861	6691	1564
zqualization	EST HUMAN	A 24 24 24 1					
The state of States and NT neuron (#937233) Homo sapiens cDNA clone IMAGE:649583 5	EST_HUMAN	A213434.1	1.00E-111 AA213434.1	2.0	11860	6 <u>6</u>	1564
pro3f12 r1 Stratagene hNT neuron (#93723		20172.	1.00E-111 WESTER	25.0	11216	6057	911
Human cardiac alpha-myosin neavy Glain	NT	25142 1	1.000	L	11021	5880	726
Homo sapiens cat eye syndronie Gucaries	NT	8393092 NT	1.000		10510	5383	189
Homo sapiens ras G i Fase activating region gene 1 (CECR1),	TN	4758807 NT	000	1		5362	168
Human noosomal protein Control of the No	NT	3701.1	1 00E-111 U43701.1	$\downarrow$	-	10005	4898
Homo sapie	NT	7662441 NT	1 00E-110		14/38	2098	4533
to Sw:N121_N11 Section (KIAA1002	EST_HUMAN	017213.1	1.00E-110 AI017213.1	<u>.</u>	44790		
ou32b10.x1 Soares_NFL_T_GBC_S1 HOMO SAPINIO CONTROL PROTEIN POM 121			_		100	and a second	3966
TR: O60312 O60312 KIAA0566 PROTEIN;	EST_HUMAN		1.00E-110 BE018556.1	0	3		
bb82a05.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3048848 5' Similar to							

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	Homo sapiens mRNA for alpha-tubulin & (TUBAS gerie)		QV4-UMUUSH-JUUSUU-190-000 CIIISOO II IBAB GENE)	Homo sapiens rick-b associated universe (Carrier CDNA	6011 /4504F I Nin INGO 1: 150110 SEPTIME 1 (D6S81E) MRNA	601174384E4 NIEL MCC 17 Homo sapiens cDNA done IMAGE:3529773 5'	601174384E1 NIH MGC 17 Homo sapiens cDNA clone IMAGE:3529773 5'		Homo canlens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like	Homo sapiens partial TTN gene for titin	Homo sapiens alpha-aminoadipate semialdenyde synulase iliniyo, complex con	Homo sapiens alpha-aminoadipate semialoenyoe syriurase mistro panileta cos	Homo saplens ferriun, neavy polypepude 1 (C117) illinois	mRNA	micros sanions transforming growth factor beta-activated kinase-binding protein 1 (TAB1),	Homo sapiens transforming growth lactor beta-activative miles and a second seco	TR: 000536 C00536 TTF-I INTERACTING PEPTIDE 5;	IN. COCCO COCCO :	10601.x1 NCI_CGAP_GC4 nonio saprana cono cono	(HA2303)	TRANSCRIPTION REGULATOR PROTEIN BACH1 (BTB AND CNC HUMOLOG 1)	0V4-UM0094-300300-156-b08 UM0094 Homo sapiens cDNA		Homo sapiens polymerase (RNA) II (UNA directed) polypopulus 2 (EECOND) (CONT.	NOTICE CONTROL (POLRZA) mRNA		Lomo soniens PKY protein kinase mRNA, complete cds	zq05e05.r1 Stratagene musice 33/203 i wino september 1	Homo sapiens NCC i plomit (NCC i) general sapiens cDNA clone IMAGE:628832 5' similar	Human gene for cavalase (account) gene. exons 1, 2, and 3	There is a sample of the catalage (EC 1.11.1.6) exon 2 mapping to chromosome 11, band p13	Long contine mBNA for KIAA1276 protein, partial cds	Homo saniens mRNA for KIAA1276 protein, partial cds	MR3-HT0487-150200-116-d01 HT0487 Homo saplens cDNA	Homo sapiens nucleoporin-like protein 1 (NLP 1), mRNA	Homo sapiens mabdold tumor detetion region protein 1 (RTDR1), mKNA	othetical protein FLJ20	similar to go:A2116/ ALF na-2-ways of a second seco	yd15c01.s1 Soares fetal liver spisen 1NFLS Homo sapiens cDNA clone IMAGE::108288 3

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	H.saplens many for IFCA to process		CVET 13101130 r1 434 (synphym: htes3) Homo sapiens cDNA clone DKFZp434C1120 5	type IV, alph	to ribosomal protein L29	matastasi	on 30c11.s1 Soares NFL T GBC S1 Homo sapiens cDNA clone IMAGE: 13/03/03	EST369769 MAGE resequences, MAGE Homo sapiens CDNA	Human apolipoprotein B-100 (apoB) gene, exon 10	gb:U09850 ZINC FINGER PROTEIN 76 (HUMAN);	1314 JOS e1 Sparse breast 2NbHBst Homo sapiens cDNA clone IMAGE: 158217 3 Similar to	Homo saniens lymphocyte activation-associated protein mRNA, complete cos	Mine muscullus fragile-X-related protein 1 (Fxr1h) gene, exons 13a through 13	Homo sablens acetyl-Coenzyme A carboxylase alpha (ACACA), mixiva	Homo sapiens T-cell lymphoma invasion and metastasis T (Trawn) Times	Homo saplens partial 5-HT4 receptor gene, exons 2 to 3	PM-BT135-070499-016 BT135 Homo sapiens CUNA	Homo sapiens sodium phosphate transporter 3 (Nr 13) III (Nr	Homo sapiens DiGeorge syndrome crucal region, calluollisis con	Homo sapiens DiGeorge synorome di la la contromedo and	Homo sapiens mixix for receive cantomeric end	DNA for KIAA0790 protein, partial cds	Human olfactory receptor pseudo_olfr17-01 (OR17-01) pseudogene, complete cds 32) gene and olfactory receptor pseudo_olfr17-01 (OR17-01) pseudogene, complete cds	OR17-201-1) gene, olfactory receptor olfr17-32 (OR17-	Home sapiens protein phosphatase, EF hand calcium-binding domain ( )	Human apolipoprotein B-100 (apoB) gene, exons 17 and 18	Human apolipoprotein 8-100 (apoB) gene, exons 1/ and 10	Homo sapiens pericentrin (PCNT) mRNA	Homo sapiens pericentrin (PCNT) mRNA	Homo sapiens synaptojanin 1 (SYNJ1), mRNA	Homo saplens synaptojanin 1 (SYNJ1), mRNA	601121347F1 NIH MGC 20 Homo saplens cDNA clone IMAGE. 2508013 3	Homo sapiens chromosome 21 segment HSZ1CCC	Homo saplens chromosome 21 segment Hoz 1000			Homo sapieris cyling (1) the process of which has similarities to BAT2 genes		Long earliens Ri7-like 3 (SIRT3), mRNA	Novel human gene mapping to chomosome X	Homo sapiens mRNA for KIAA0350 protein, partial cds	Homo sapiens partial TTN gene for titin	

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54/141	74 NT		74_NT	121	77 117	N N	<u> </u>	EST HUMAN		NT	ANT	NT	EST_HUMAN	3	EST_HUMAN	2	2 2		1	1	EOI TOWN			N N	N.T	EST HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	NT	NT		T_HUMAN		NT	TN	NT	NT
	Homo sapiens aquaporin 4 (AQP4), splice variant b, mRNA	Homo sapiens myelold/lymphoid or mixed-lineage leukemia (minorax (Diosophina) indinara)	translocated to, 4 (MLLT4) mRNA		Homo sapiens collagen, type XII, alpha 1 (COL12A1), mRNA		Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mkna, complete was	yyaug12.r1 Soares illeratiocyte 21th illing CEP 100 The Complete cite	Homo Sapielis ilitel sectification of the Publish Homo sapiens cDNA clone IMAGE:273766 5'	Homo sapiens intersectin 2 (SH3D1B) mRNA, complete cds	Homo sapiens synaphyddini i (3 1130 /), iii sae y mmolefe cds	Homo sapiens mRNA for KIAAU708 protein, parual was	7B14F03 Chromosome / retail bidin color county	Homo sapiens giulamate recepior, formación, numero de la conecta de la c	WP:E04F6.2 CE01214;	on 10b05.s1 NCI CGAP Lu5 Homo saplens cDNA clone IMAGE:1556241 3' similar to	Homo saniens hypothetical protein FLJ10052 (FLJ10052), mRNA	Homo saniens mRNA for KIAA0930 protein, partial cds	Homo saniens CGI-105 protein (LOC51011), mRNA	Homo sapiens chloride channel CLC4 (ClC4) mRNA, complete cds	Human mRNA for ribosomal protein, complete cds	Sporting v1 NCI CGAP Kid5 Homo sapiens cDNA clone IMAGE:1916769 3'	Confirm septions: 1.1. CGAP Kid5 Homo sapiens cDNA clone IMAGE:1916769 3'	Long capiens PRKY exon 7	Human breakpoint cluster region (BCR) gene, complete cds	ESTABLE MANUEL INSERTION (BCR) Gene complete cds	601261947F1 NIP MICC THE INTIL CONTROL SAPIENS CONA	AA Homo sapiens	601281947F1 NIH MGC 44 Homo sapiens cDNA clone IMAGE:3604019 5	Homo saplens sine oddiis nomeooox (crosopinia) rome IMAGE:3604019 5'	Homo sapiens hypothetical protein (UJSZGE 19.C.1.1), IIINNS	Homo sapiens T-ceil lymphoma invasion and inclusions (1) month	DKFZp434I056_r1 434 (synonym: htes3) Homo sapieris CDIAC Stories CTIAM1) mRNA	Homo sapiens HSPC151 mRNA, complete cas	Homo sapiens mRNA for KIAAU800 protein, Complete Co.			H.saplens mRNA for TPCR16 protein

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	Homo sapiens inner membrane protein, miliocitoridi (miliocitii)	Homo sapiens chromosome 21 segment noz 10049	Human phosphoenolpyruvate carboxykinase (r on i) Bene, Promote	Allega (BOVA) gene promoter region and partial cds	(APP), mKNA III.HE-BNO-all-a-03-0-UI.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3079948 5'	Homo sapiens amyloid beta (A4) precursor protein (protease invariant)	Homo sapiens noosolilai pioteiii Lo (to Lo) in tali (contasse nexin-ii Alzheimer disease)	TOITO sapialis ilocomia protein I 8 (RPI 8) mRNA	nonio sapiene discome i profesio I.8 (RPL8) mRNA	Homo sanions cystaine-rich repeat-containing protein S52 precursor, mRNA, complete cds	kana II)	Human kappa-Immunoglobulin germline pseudogene (Chr22.4) variable region (subgroup V	Homo eanlens Intersectin short isoform (ITSN) mRNA, complete cds	Upmo espiens intersectin short isoform (ITSN) mRNA, complete cds	omo sap	H saplens ECE-1 gene (exon 17)	Homo sapiens prospero-related homeobox 1 (PROX1) mRNA	lox57b01.x1 NCI_CGAP_Pan1 Homo sapiens cUNA cone IMAGE. 2000417	Homo saplens adaptor-related protein complex AP-4 epsilon subulini ilinxix, with the complex AP-4 epsilon subulini ilinxix and the complex AP-4 epsilon subulini ili	Homo sapisits in the consists of the consists	Libra Spicing mBNA for KIAA1337 protein, partial cds	Lomo sanians mRNA for KIAA1337 protein, partial cds		Homo saplens hHb3 gene for hair keratin, exons 1 to 9	piens glutamate receptor, metabi	a, mRNA	a, mRNA a, mRNA (INPP4A), splice variant	Homo saplens inositol polyphosphate-4-phosphatase, type I, 10/kU (INFP4A), spilice validing	Homo sapiens mRNA for KIAA0581 protein, partial cds	Homo saplens TNF receptor-associated factor 1 (TRAF1) mRNA	Homo sapiens NF2 gene.	od61f03.x1 Soares testis NHT Homo sapiens cDNA clone IMAGE:1/339613	Homo sapiens stanniocalcin (STC) gene, partial cds	Homo saplens stanniocalcin (STC) gene, partial cds	MRC-HT0209-301199-101-d04 HT0209 Homó saplens cDNA	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, parual cos	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mkNA, paruai cus	Homo sapiens synaptojanin 1 (SYNJ1), mRNA

	Leal_Lioners	1.00E-124 AIZ04535.1	1.00E-12	7 2.7	9 15217	Т	2020	
of56h03.x1 Spares testis NHT Homo sapiens cDNA clone IMAGE:1754069 3	EST LIMAN	1.00E-124 M18178.1	1.00E-12	1.1	٦	П	4850	
epe:		1.00E-124 ABUZ4U59.1	1.00E-12	7 1.6	٦	7	4639	
Homo sapiens gene for B120, exon 11	NT	40041	1.00E-124	1.2	14198	$\neg$	3983	
Homo sapiens glutamate receptor, lonotropic, kalinate 1 (Grain I) III was	2		1.000-124			5 8962	3825	
Homo sapiens T-cell lymphoma invasion and metastasis ( ) ( ) ( ) ( ) ( )	DNT		1.000.124		Г	8 8737	3598	
H.sapiens lactate dehydrogenase B gene excit a did 2 (EC ::::::::::: ) MRNA	Z,	4 Y13704 1	2000	T	Г		3446	
Homo sapiens ATP-sensitive inwardly recurring recurring recurring (specific and loined CDS)	Z <sub>1</sub>	4 578684.1	4 00E-13				3	
Tollio Germani (KCNJB/BIR1) gene, exon	NT	4 S78684.1	1.00E-124	1.0	13701	8588 	3446	
Homo saniens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ6/BIR1) gene, exon			1.000-124	0.9	13577	П	3319	
o		1.00= 124	1.000	Γ	Γ		2408	
Homo saplens gene for B120, exon 11		1.00E-124 [AVV0405013.1	1.000	Γ		П	2309	
RC3-CT0197-150999-011-G05 CT0197 Homo sapiens CDIVA		210/80	1.008-124		12107		1802	_
Homo sapiens zinc finger protein 76 (expressed in testis) (ZNF76) (IIINVS)		1.00E-124 AJ131/14:1	1.00E-12		12082		1773	_
Homo saplens mRNA for nucleolar RNA-helicase (nono) gene)	Z	1.00E-124 (AFZ/402:1	1.00=-124	Γ	11619		1324	_
	Z	1.00E-124 AF2/4082.	1.00E-124		11618	П	1324	-
Homo saplens glucose transporter 3 gene, exons 9, 10, and complete cos	NT	10010	1.00E-124	0.6	11192	6034	88	_
Homo saplens hypothetical protein (HSPC068), mKNA	NT		1.00E-124	1.1	11093	_1	791	
Homo saplens T-cell lymphoma invasion and metastasis ( ( ICW) ( ITW)	NI	1.00E-124 Or 10007:	1.00=-124	1.3	11041	5895	742	
Human putative ribosomal protein S1 mKNA	NT I	AE155554 1	1.000	٥	10962	5831	676	_
ELEMENT);	EST HUMAN	4 nos 124 AA397551.1	1005 104	3				_
to TR:G300482 G300482 POL=REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL								_
Heathard Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar	EST_HUMAN	1.00E-124 AA397551.1	1.00E-124	0.7	10961	5831	676	
to TR:G300482 G300482 POL=REVERSE INVINCENT FOR								
zt81b04.r1 Stratagene schizo brain S11 Homo sapiens CUIVA Golie INVOCE.		1.000-124   00-100-	1.000-124	e,	10770	5643	477	
Homo sapiens chromosome 21 segment HSZTCU46		100E-124 DOVOTO:	1.000	0.7		5461	273	_
Homo sapiens DNA for amyloid precursor protein, cultipleto cas		D87675 1	1.000	=	10581	5455	268	
Homo sapiens T-cell lymphoma invasion and melasiasis i (1121117) in the constant of the consta		4507500 NT	1.000		10580	5455	268	
		4507500 NT	1000			7373	2267	
		7705962 NT	1.000		12371	7162	2052	7
		4502072 NT	1.000	=	12370	7162	2052	
Homo sapiens amelogenin (Y chromosome) (AMELY) month		4502072 NT	1000	=	12369	7164	2052	
amelogenin (Y chromosome)		02072	1.000	ee	11743	6566	1439	
sample GN02	NI	A.1388641.1	1 005-123	) n	<u>.</u>			
Homo sapiens partial mRNA for immunoglobulin kappa chain variable region (1946 gene).	$\perp$	1.00E-123 AW362922.1	1.00E-123	0.9	11588	6422	1293	Т
11-a03 CT0295 Homo	HIMAN	3	1.005-123	1:1	11509	6348 8	1218	_
and translated products	Z	4505818	3					П
Homo sapiens phosphatidylinositol-4-phosphate 5-kinase, type II, beta (PIP5K2b) ITIKINA,		4505818 NI	1.00E-123	1.1	11508	6348	1218	
Homo sapiens phosphaucymiosiwin Privophius					_	$\downarrow$		٦
beta (PIP5K28) mRNA,								

				Γ	10400	5 5360	165
Homo sapiens miking for caselli kilikase i operational control	NT	1.00E-127 AB024597.1	1.00E-12	Ţ	Τ	Т	4728
TAX BOOK I CORREST PARA I ADSILON, COMPLETE COS	ESI HUMAN	1.00E-126 N34078.1	1.00E-12	1	1	Т	ا
278-06 rt Spares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE: 20/00/00		1.00E-126 AFTUTTUS.1	1.00E-126	1.0	٦	7	4677
Homo sapiens collagen type XI alpha-1 (COL11A1) gene, exon 63	21	1.00E-126 AF 101106.1	1.00E-126			7	4677
Home sapiens collagen type XI aipha-1 (CULTTAT) gelie, excit of			1.000-120		13839	5 8744	3605
Homo sapiens death receptor o (URG), HINNE	8 NT	7657038	200	T	Γ	7 8716	3577
H.sapiens DNA for liver cytochrome to pseudoserio	NT	1.00E-126 X53941.1	1 00=126	T	Τ	Г	3035
20/2003.1 StateBall Pains on V.	EST_HUMAN	AA160709.1	1 00E-126				
T2002 d Stratagene nancreas (#937208) Homo sapiens cDNA clone IMAGE:592420 5	EST_HUMAN	AA160709.1	1.00E-126	6.1	13289	8187	3035
7072c03 r1 Stratagene pancreas (#937208) Homo sapiens cDNA clone IMAGE:592420 5			1.005-120	J.ä	13039	7838	2754
601122073F1 NIH_MGC_20 Homo sapieris CUIVA Golia iii	EST HUMAN	g=27525	1.000	T	Γ	Г	2552
Homo sapiens RAN binding protein 2 (RANBF 2), TITAINS	NT	1.00E-128 6382078	1.00=126		Γ	Г	2371
601114764F1 NIH MGC 16 Homo sapiens culva cione inscribens	T HUMAN	DE258140 1	1.00E-120 A00:00:	0./	11202	6048	901
H.saplens gene for alpha1-antichymotypsin, exon 3	P	1.00E-126 AVV316525-1	1.00E-120	2.5			845
PM2-CT0328-100100-001-h12 CT0328 Homo sapiens CUNA	EST HUMAN	WD1830.1	1.00E-126 MO1930.1	1.2	11060	5912	760
Human laminin B1 chain gene, exon 20	NT	47 3000	1.005-126	0.9	11057		757
Homo sapiens CDC-like kinase (CLK) mRNA	NT	1.00E-125   BE3134 (2.1	1.00E-125	0.8	14727		4516
601141152F1 NIH_MGC_9 Homo saplens cDNA clone IMAGE:3140730 3		P32/42	1.00E-125	1.2	13342	8240	3089
		P52/42	1.00E-125 P52/42	 	13341	8240	3089
ZINC FINGER PROTEIN 135		P52/42	1.005-125 25742	1.4	13340	8240	3089
ZINC FINGER PROTEIN 135		AI / 32900. I	1.00E-125	0.9	12852	7649	2555
oh64d02.x5 NCI_CGAP_Kid5 Homo sapiens cDNA done IMAGE: 14/17/93	EST HIMAN	9		0.6	12848	7646	2551
Homo sapiens inhibin, alpha (INHA) mRNA	NT	7E04608	1.00=-125	0.6	12847	7646	2551
Homo saplens inhibin, alpha (INHA) mRNA	HOMAN	AA042813.1	1.00E-125	1.2	12760	7554	2455
zk53c07.s1 Soar89_pregriam_users_rs; Similar to gb:X65867_cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);							
(FACTP140), mRNA		6005756 NT	1.00E-125	0.9		7495	2395
Homo sapiens chromatin-specific transcription elongation lactor, 170 miles			1.000	1.4	12078	88	1769
Homo saplens Usurpin-alpha mRNA, complete cds			1.00E-125 AF015450 1		12077	6890	1769
Homo sapiens Usurpin-alpha mRNA, complete cds			C71-100.L	=	11946	7922	1649
Homo sapiens KIAA0022 gene product (KIAA0022), mRNA		7661867 NT	1.00E-125	0.6	11422	6272	1136
lomo sapiens KIAA0744 gene product; histone deacelylase / (NIXAVITT);		3370	1.00E-123 AL 103210-2	0.5	11282	6127	982
Homo sapiens chromosome 21 segment HS21C010	NT TOWER		1.00E-125 AA042813.1	0.7	11151	5991	842
zk53c07.s1 Scares pregnam_uscare_tor. similar to gb:X65857_cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);							
notific septimis 75.7 with the season with the season of t	N		1.00E-125 AF264750.1	1.2	11001	8	711
HAUDO DUITAI TOUR TITO CO.	HUMAN		1.00E-125 AI110656.1	0.6	0910	5787	808
TOOGGE Liming fotal liver cONA library Homo saplens cONA	HOMAIN		1.00E-125 AI110656.1	0.6	10000	278	3
LACORR Human fetal liver cDNA library Homo sapiens cDNA	MAN		1.00E-125 AB032998.1	1.8		5500	316
Long sanians mRNA for KIAA1172 protein, partial cds							

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116	3348	2162	2025	2025	1138	1138	452	4575	4532	4499	4395	4160	4160	4128	4026	3740		3436	3436	2579	2579	2566	2153	2020	2020	1665	898	863	272	272	166	166	165
5575	8492	7271	7138		6274				7	9619	9517	9286	9286	9254	9154	8877		П	$\neg$	7672			П	7133	7133	6789	6045	П	П	T	$\neg$	Т	5360
10714	13603	12482	12338		11425	11424		14784		14710	14607	14366	14365	14334	14238	13967		13690	13689	12874	12873	12862	12471	12333	12332	11965	11201	11172	10589	10588	10487	10486	10487
2.2	1.1	4.8	4.4	4.4	1.5	1.5	1.5	1.0	1.9	4.2	0.9	21.5		0.9	1.1	0.9		1.0	1.0	1.0	1.0	1.0		0.6	0.6	1.0				0.8	8.0		1,2
1.00E-129	1.00E-128	1.00E-128	1.00E-128	1.00E-128	1.00E-128	1.00E-128	1.00E-128	1.00E-127	1.00E-127	1.00E-127	1.00E-127	1.00E-127	1.00E-127	1.00E-127	1.00E-127	1.00E-127		1.00E-127	1.00E-127	1.00E-127	1.00E-127	1.00E-127	1.00E-127	1.00E-127	1.00E-127	1.00E-127	1.00E-127	1.00E-127	1.00E-127	1.00E-127	1.00E-127	1.00E-127	1.00E-127
.00E-129 S37722.1	1.00E-128 AB033073.1	4506718	1.00E-128 U02523.1	1.00E-128 U02523.1	4758081 NT	4758081 NT	1.00E-128 BE385617.1	6912639	AL163268.2	4506384 N1	AF252297.1	7706239 NI		1.00E-127 AL163247.2	1.00E-127 AF135188.1	1.00E-127 AW161297.1		1.00E-127 AW610485.1	1.00E-127 AW610485.1	1.00E-127 AW403790.1	1.00E-127 AW403790.1		4506620 NT	5803065 NT	5803065	4827053	U72621.2	1.00E-127 AF114488.1	D87675.1	D87675.1	AB024597.1		AB024597.1
NT.	Z		N <sub>1</sub>	NT	NT	N	EST_HUMAN	TN	N <sub>1</sub>	NT	N.T	N	NT NT	NT T	NT	EST_HUMAN		EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	INT	INI	NT	NT	NT	3	NT	NT TN	NT	NT	NT	NT
insulin-like growth factor binding protein-2 [human, placenta, Genomic, 1019 nt, segment 2 of		Homo saplens ribosomal protein S2 (RPS2) mRNA	Human FAU1P pseudogene, trinucleotide repeat regions	Human FAU1P pseudogene, trinucleotide repeat regions	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA		Homo sapiens Ring1 and YY1 binding protein (RYBP), mRNA	Homo sapiens chromosome 21 segment HS21C068	Homo saplens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products	cds	Homo sapiens neuropiasioma-amplined protein (LCC31394), innvv	Homo sapiens neurobiastoma-amplined protein (LUC-31394), ITIKNA	Homo sapiens chromosome 21 segment HS21C047	Homo sapiens delayed rectifier potassium channel subunit ISK mkNA, complete cos		au80e06.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782594 5' similar to TR:Q15170 Q15170 TRANSCRIPTION FACTOR S-II-RELATED PROTEIN	RC0-ST0379-210100-032-h12 ST0379 Homo sapiens cDNA	RC0-ST0379-210100-032-h12 ST0379 Homo sapiens cDNA	UI-HF-BK0-abn-a-06-0-UI.r1 NIH_MGC_36 Homo sapiens cDNA cione IMAGE:3056555 5'	UI-HF-BK0-abn-a-06-0-UI.r1 NIH_MGC_36 Homo sapiens cDNA clone IMAGE:3056555 5'	Homo sapiens keratin 18 (KRT18) mRNA	Homo sapiens ribosomal protein L26 (RPL26) mRNA	Homo sapiens leukocyte immunoglobulin-like receptor, subtamily A (with 1M domain), member 1 (LILRA1), mRNA	member 1 (LILRA1), mRNA	Homo sapiens ubiquitin specific protease o (USPO) mixiva	Homo sapiens lost on transformation LOTT mkNA, complete cus	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds	Homo sapiens DNA for amyloid precursor protein, complete cds	Homo sapiens DNA for amyloid precursor protein, complete cds	Homo sapiens mRNA for casein kinase I epsilon, complete cds	Homo sapiens mRNA for casein kinase I epsilon, complete cds	Homo sapiens mRNA for casein kinase I epsilon, complete cds

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Inditio aspicito Colores and The	2	D83337 1				Ī	
Library services DCRR1 mRNA, partial ods		11 6400780	6			15 5223	
Homo sapiens hypothetical protein FLJ20371 (FLJ20371), mkn4	TING	00200				15 5223	
	9NT	8923349 NT			Π	7 5215	
		4885136 NT	+	1	Т	4 5213	
	EST HUMAN	AA228126.1	<b>D</b>				
	EST_HUMAN	AA228126.1	0	0.9	10314	5213	
	E01_(101001	1.00E-130 AW363299.1	1.00E-130	13	15206	9 10130	5029
		1.00E-130 AW300259.1	1.00E-130	1.1	15205	9 10130	5029
⅃	EST HUMAN	1.00E-130 AW263390 1	1.00E-130			8 9559	4438
	EST HUMAN	1.00E-130 AW503580.1	1.00E-130	===	14092	7 8993	3857
UI-HF-BN0-aky-g-06-0-UI.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:30/0/313					T	8	Joseph
Homo sapiens reunoi derivulogenase ilviniace	N.T	1.00E-130 AF240698.1	1.00E-130		T	Т	7087
Homo sabiens neuropiiii & (IVIX & J. III VIX)	NT	4505458 NT	1.00E-130		Т	Т	2022
Homo sapiens neuropiiin 2 (MNI 2) mRNA	NT	4505458 NT	1.00€-130	8.0	1300	Т	2012
	Z	AJ010230.1	1.00E-130	2.8	T	Т	27.50
<b>.</b>	EST_HUMAN	1.00E-130 BE280697.1	1.00E-130	1.5	T	T	222
1	EST_HUMAN	1.00E-130 BE280697.1	1.00E-130	1.5	12566	Т	3063
	NT T	X04092.1	1.00E-130 X04092.1	0.8	T	Т	
	EST HUMAN		1.00E-130	2.5	T	1	1040
Se complete and management of the second sec	EST HUMAN	1.00E-130 BE275192.1	1.00E-130	2.5	1190	Т	1243
CAV1 (exons 1 and 2)  CAV1 (exons 1 and 2)  CAV1 (exons 1 and 2)	N	AJ133269.1	1.00E-130 AJ133269.1	1.2		6136	g l
CAV1 (exons 1 and 2) Homo saplens caveolin-1/2 locus, Contig1, D7S522, genes CAV2 (exons 1, 2a, and 2b),	N		1.00E-130 AJ133269.1	0.7		6136	993
Homo sapiens caveolin-1/-2 locus, Contig1, D7S522, genes CAV2 (exolis 1, 22, 21)			1.005-130 51 500-100-1	1.0	10514	5386	192
Homo sapiens RACK-like protein PRKCBP1 (PRKCBP1) mRNA, Compete Val	NI.		1.00E-130 AF233453 1	15	10513	5386	192
Homo saplens RACK-like protein PRKCBP1 (PRKCBP1) mRNA, complete cus	NT		1.00E-129 AF233453 1	9.7	14389	9309	4183
Similar to CMYAS Cardiomyopathy associated gene 5	not HIMAN					9000	1
similar to CMYA5 Cardiomyopathy associated gene 5	EST_HUMAN		1.00E-129 AW755254.1	9.7	14388	9309	4403
CANYAS Human cardiac muscle expression library Homo sapiens cDNA clone 4151935	2		1.00E-129 AB040892.1	2.2	14286	9200 9200	4073
Homo saniens mRNA for KIAA1459 protein, partial cds	2	900	1.00E-129	6.1	14217	9135	\$ \$
Homo sapiens IMP (inosine monophosphate) dehydrogenase 1 (IMPDH1) mRNA	A A	4505682 NT	1.00E-129	1.2	13036	7835	2751
Homo sapiens platelet-derived growth factor receptor, beta polypeptide (PDGFRB) mRNA			1.000-123	1.2	13035	7835	2751
Homo saplens platelet-derived growth factor receptor, beta polypepude (FDG) 1100	<b>T</b>	4505682 NT	1 005-126	;		8	į
	NT	12	1.00E-129 AL096880.1	5	11993	813	RAG S
[4]	NT T		1.00E-129 S37722.1	0.8	10714	5575	407
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112	112	111	110	102	95	94	89	86	77	76	74	71	71	69	69	63	59	55	55	53	52	52	51	51	35	3	24	20	
7858	7858	5313	5313	5307	5302	5301	П	П	5283	5282	5280	5276	5276	5276	5276	5269	5267	5264	5264	5262	5261	5261	5260	5260	224 4	Ž Ž	5233	5229	
10440	Г	10438	10438	10433		10427	П	10418	Т	10409			10401	10402	10401		10389	10385	10384	10381	10380	10379	10378	103//	10351	10340	10336	10332	
0.6	0.6	0.6	1.4	2.1	1.0	1.5	4.6	16.0	5.0	<b>1</b> .1	14.0	0.5	0.5	0.6	0.6	9.0	2.0	2.8	2.8	1.4	1.2	1.2	4.1			3 2		2.5	
c	.	0	0	6	6	6		0	0	0	0	0	0	0	0		}	٥	, 0	0	0	0			3	٥		L	
1436040.1	N36040.1	Al623701.1	Al623701.1	X91213.1	ABU3/104.1	A1114/43.1	U89277.1	5016088 NT	4504444 NT	4501850 NT	AA953770.1	4758977 NT	4758977 NT	4758977 NT	4758977 NT	WIOCOT O. I	M60676 1	AVV00907.1	AW069534.1	L16558.1	D78804.1	D78804.1	17101.6	V17151 3	V17151 2	6857825	M58600 1	D83327.1	
10, 2,0,0	EST HIMAN	EST HUMAN	EST_HUMAN	2	27	1	NOT LIMAN	NT	ANT	N N	EST_HUMAN	7NT	7 NT	7 NT	NT		2	- II	EST HUMAN		EST_HUMAN	EST_HUMAN		NT	N.T.		Z	NT Z	
	w01h09 r1 Spares melanocyte 2NbHM Homo saplens cDNA clone IMAGE:270017 5'	TR:Q99551 Q99551 MITOCHONDRIAL TRANSCRIPTION TERMINATION FACTOR PRECURSOR: PR	TR:Q99551 Q99551 MITOCHONDRIAL TRANSCRIPTION TERMINATION FACTOR PRECURSOR.;  In 38h05 14 NCI CGAP UM Homo sapiens cDNA clone IMAGE:2230833 3' similar to	hashos v1 NCI CGAP Ut4 Homo sapiens cDNA clone IMAGE:2230833 3' similar to	H sprians next dana (axon 2)	Home seniens mRNA for KIAA1363 protein, partial cds	HA1347 Himan fetal liver cDNA library Homo sapiens cDNA	Homo sapiens acuti, peta (ACLD) ilikwy	Homo sapiens neterogeneous nuclear i loci laureoproceiri C. Villiani III.	nuclear gene encoding mitochondrial protein, mRNA	to SW:TMOD HUMAN P28289 TROPOMODULIN.:  (b) SW:TMOD HUMAN P28289 TROPOMODULIN.:  (c) SW:TMOD HUMAN P28289 TROPOMODULIN.:	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (F1FN-31) tillN-2	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (F 1 FNO 1) III NAC	Homo sapiens protein tyrosine phosphatase, non-receptor type suusudus (transporter)	Homo sapiens protein tyrosine prospriadase, indireceptur typo contract of ADTENISAL mRNA	The state of the second records the substrate 1 (PTPNS1) mRNA	Human von Willebrand factor pseudogene corresponding to exons 23 through 34	Human von Willebrand factor pseudogene corresponding to exons 23 through 34	cr48e07.x1 Jia bone marrow stroma Homo sapiens cDNA clone HBMSC_cr48e07.31	Human noosonial protein Er (N Er) III North School HBMSC cr48e07 3'	5'	5' HI MS16H08B Human placenta polyA+ (TFujiwara) Homo sapiens cDNA clone GEN-516H08	HUM516H08B Human placenta polyA+ (TFujiwara) Homo saplens cDNA clone GEN-516H08	Homo sapiens mRNA for multidrug resistance protein 3 (ABCC3)	Homo saplens mRNA for multidrug resistance protein 3 (ABCC3)	Homo sapiens RNA-binding protein S1, serine-rich domain (RNPS1), mKNA	Human heparin cofactor II (HCF2) gene, exons 1 through 5	Homo sapiens beta-tubulin mRNA, complete cds	Homo saniens DCRR1 mRNA; partial cds

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ω	ω	<u>ن</u>	ي	یاد			303	302	301	290		290	282	281	281	270	269	269	257	249	247	240	238	226		226	220	3	225	225		225	224	224		
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	Homo sapiens (itersecuri orior	O Sapiei	niono sapione son DNA binding protein	Homo sanians SON DNA binding protein	32 COR 1 Spares NhHMPu S1 Homo saplens cDNA clone IMAGE:753994 5	Homo sapielis priospromocytery (GART) mRNA synthetase (GART) mRNA		Homo sapiens ribosomal protein S5 (RPS5) mKNA	Homo sapiens mRNA for KIAA1019 prote	Homo saplens mRNA for KIAA 1019 protein, partial ode	P	Homo sapiens potassium inwardly-rectifyir	Homo sapiens polassiciii iiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	10031-18	Homo sapiens DCRR1 mRNA, palual Was	Homo sapiens DCRR1 mRNA, paruai cus	Homo sapiens hypothetical protein (LUC31230); ""	Homo sapiens T-cell lymphoma invasion and included the sapiens T-cell lymphoma invasion and included the sapiens of the sapien	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA	Homo sapiens chromosome 21 unknown in the	H.sapiens mRNA for interestor appliances	Homo sapiens chromosome 21 discommend	Homo sapiens circuitosoffie 21 inknown mRNA	sapiens	project=TCBA Homo sapiens CUNA Clone 1 COC TTO	CBAP1E4466 Pediatric pre-B cell acute lymphobiastic leukemia Baylor-NGSC	reciect=TCBA Homo sapiens cDNA clone T	project=TCBA Homo sapiens curve Coris 1000 and Baylor-HGSC	TCBAP1E4466 Pediatric pre-B cell acute lyr	TCBAP1E4466 Pediatric pre-b con Cone TCBAP4466	project=TCBA Homo sapiens cDNA cione I CBA: TTO	project=TCBA Homo sapieris Coro Coro mphoblastic TCBAP1E4466 Pediatric pre-B cell acute lymphoblastic	TCBAP1E4466 Pediatric pre-B cell acute lymphoblastic leukernia Baylor-HGSC	TCBAP1E4466 Pediatric pre-b cell active ymproperations are properly active TCBAP4466	roject=TCBA Homo sapiens cDNA clone TCBAP4466	rcs AP1=4466 Pediatric pre-B cell acute lym
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ygusauzi i utaras ilitarii oraii sa (RPSS) mRNA	EST_HUMAN	R17795.1	0	T	10304	Т	2 2 2	_
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H sanians game for RNA pol II largest subunit, exons 23-29	NIT.	X/48/0.1	0	Г	10699	7	396	_
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RC2-CT0320-300100-016-a09 CT0320 Homo sapiens CUNA		NW764480 1		1.0	10721	5588	382	
gb:X54199 PHOSPHORIBOSYLAMINE-GLYCINE LIGASE (HUMAN):	EST HUMAN	A1363014 1						-
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	77	D80006.1	0	0.5	10669	5538	380	$\neg \tau$
Himan mRNA for KIAA0184 gene, partial cds	17	Dauuo. 1	0	1.4	10669	5538	359	7
Human mRNA for KIAA0184 gene, partial cds	TIN TOOOGE	450	-	1,4	10668	5537	358	
Homo sapiens GA-binding protein transcription raction, alpha coronic (Control of Control	3854		,					1
is in the property of the subunit (60kD) (GABPA), mRNA	4507500 INT	49	0	0.9	10665	5535	356	
Homo saplens T-call lymphoma invasion and metastasis 1 (TIAM1) mRNA	NT I	AFZ31818.1	٥	1.2	10663	7887	354	- 1
Homo sapiens chromosome 21 unknown mRNA	N7 -	A-231919.	-	0.7	10662	5533	353	- 1
Homo sapiens chromosome 21 unknown mRNA	1	Ar Zalala.	c	0.7	10661	5533	353	
Homo sapiens chromosome 21 unknown mRNA	NT.	0/1600.1	6	0.8	10657	5529	348	
Human zinc finger protein zfp31 (zf31) mRNA, partial cds	40Z/US/ N1	402	0	1.3	10652	5526	345	•
Homo saplens X-box binding protein 1 (XBP1) mRNA	4505255 NT	450	0	0.9	10648	5523	342	- 1
translocated to, 4 (MLLT4) mRNA  Homo sapiens moesin (MSN), mRNA	5174574 NT	517	0	1.3	10647	5522	<u>4</u>	
Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (unitoria)			١	0.8	10635	5508	326	
Homo sapiens hormonally upregulated neu tumor-associated kinase (10/11/),	7857213 NT	785	}	1.4	10835	5508	325	
Homo sapiens hormonally upregulated neu tumor-association (hi link) mRNA	657213 NT	Л	}	0.8	4500L	5507	324	
(HA2303)	SWISSPROT	014867	>	2				
TRANSCRIPTION REGULATOR PROTEIN BACH1 (BTB AND CNC HOMOLOG 1)	SWISSPRO	014867	0	0.9	10633	5507	324	
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ATOR PROTEIN BACH1 (BTB AND CNC HOMOLOG 1)								

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2,00001.1. 000.00	HENANT A Spares festis NHT Homo sabiens cDNA clone IMAGE:726732 5	Homo saniens low density ilpoprotein-related protein 2 (LRP2), mRNA	Homo saniens low density lipoprotein-related protein 2 (LRP2), mRNA	Homo saplans low density lipoprotein-related protein 2 (LRP2), mRNA	Homo saplens low density lipoprotein-related protein 2 (LRP2), mRNA	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3	Homo sapiens Smad- and Oif-interacting zinc finger protein mRNA, partial cos	Homo saplens Smad- and Olf-interacting zinc finger protein mRNA, partial cos	Homo sapiens acetyl-Coenzyme A carboxylase Deta (ACACO), ITINIAN	Human apolipoprotein A-I (ApoA-I) gene, exon I	(UQCRFS1), nuclear gene encoding mitochondrial protein, mRNA	Homo sanians uhlquinoi-cytochrome c reductase, Rieske iron-sulfur polypeptide 1	Homo saniana RGH1 pana, retrovirus-like element	UI-H-BI1-acb-h-04-0-UI.s1 NCI_CGAP_Sub3 Homo saplens cDNA clone IMAGE:2713951 3	flanking repeat regions	Homo sapiens X-linked anhidroitic ectodermal dysplasia protein gene (EUA), exon 2 and	mRNA	mRNA	Homo seniens quanine nucleotide binding protein (G protein), alpha 11 (Gq class) (GNA11)	Homo sapiens transcription elongation factor B (SIII), polypeptide 1-like (TCEB1L) mRNA	Homo saplens mRNA for KIAA14/6 protein, partial was	QV2-BT0635-160400-142-nuo BT0600 F10110 Sapielis CC137	Homo sapiens chromosome 21 segment MSZ1CU10	Homo sapiens PC326 protein (PC326), IIINNA	Novel human gene mapping to chomosome	PM0-D10065-130400-002-000 D10000 10110 september 5			Homo sapiens chromosome z i segineiri nozi coro	Homo sapiens Chomosomo & locality in the sacratic Code	Homo sapiens chromosome 21 segment HS21C046	Tollo sepialis valauli 10 (1111)	Como sociene kendin 18 (KRT18) mRNA	Torilo sapiens Carette 48 (KRT18) mRNA	Lorgo soplene 5-hydroxydryniamine (serotonin) receptor 1B (HTR1B) mRNA		ES127054 Cerebellum II nomo sapiens cDNA clone IMAGE:3352348 5	TOTOTOS Comballion II Homo esplene cDNA 5' end

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	Homo sapiens KiAA0170 gene product (KIAA0170), mRNA	Homo sapiens gene for AF-6, complete cds	Homo sapiens splicing factor 3a, subunit 1, 120kD (SF3A1), mRNA		Homo saplens mRNA for repressor protein, partial cds	Homo sapiens zinc finger protein 212 (ZNF212), mRNA	Homo sapiens mRNA for KIAA1339 protein, partial cds	Human, plasminogen activator inhibitor-1 gene, exons 2 to 3	Human, plasminogen activator inhibitor-1 gene, exons 2 to 9	Homo sapiens chionde channel CLC+ (CIC+) (III) (CIC+) (CIC	Homo sapietis willo dessi altaget (Cica) mana complete cds		project=TCAA Homo sapiens cDNA clone TCAAP0779  Long contens MHC class I antiben (HLA-G) mRNA, HLA-G1 allele, complete cds	TCAAP1D0779 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-Hosc	Homo saplens ALR-like protein mRNA, partial cds	Homo sapiens ALR-like protein mRNA, partial cds	Homo sapiens TNF receptor-associated factor 1 (TRAFT) ITIKINA	Human von Willebrand factor gene, exons 23 through 34	Human von Willebrand factor gene, exons 23 through 34	gb:X57352 INTERFERON-INDUCIBLE PROTEIN 1-8U (HUMAN);	Homo Sapiens Sumilar to Tocap Rrd 1 Homo sapiens cDNA clone IMAGE:1129633 3' similar to	nembrane glycoprotein POM121 (POM121L1), mRNA	Homo sapiens mRNA for KIAA1089 protein, partial cds	Homo sapiens high-mobility group (nonhistone chromosomal) protein 1 (HMG1) mKNA	Hirman endogenous retrovirus pHE.1 (ERV9)	Homo sapiens protein kinase, X-linked (PRKX) mRNA	Homo sapiens protein kinase, X-linked (PRKX) mRNA	Homo sapiens sodium/calcium exchanger isoform NaCa3 (NCX1) mkNA, complete cus	Homo sapiens sodium/calcium exchanger isoform NaCa3 (NCX1) mRNA, complete cds	Human neutral amino acid transporter (ASCT1) gene, exon 8		Homo saniens clutamate receptor, ionotropic, N-methyl D-aspartate 28 (GRINZB) mRNA		IMAGE:415567 5' similar to gb:A21187 ALPHA-2-MACROGLOBULIN PRECURSOR	(HUMAN):	Homo sapiens RGH2 gene, retrovirus-like eleriteri.  7551b04 r1 Soares fetal liver spieen_1NFLS_S1 Homo sapiens cDNA clone

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	Homo sapiens linker to take	Homo saludis hypomores Francha-finbulin 8 (TUBA8 gene)	Homo sapisits in postaling in the same of	Promo saprens committed protein FLJ20695 (FLJ20695), mRNA	Truff Coppering K-cadherin (fetal kidney) (CDH6) mRNA	Homo saniens cadhedn 6, K-cadhedn (fetal kidney) (CDH6) mkNA	Homo saplens heat shock 70kD protein 9B (mortalin-2) (HSPABB) IIIN V	Homo saciens hypothetical protein FLJ11196 (FLJ11196), HINNE						aa86g07.s1 Stratagene retai reura 57.5	Homo sapiens inner membrane promit, miss sapiens cDNA clone IMAGE:838236 3'	Homo sapiens UKF2F300W0122 Piccon (mitofilin) (IMMT), mRNA	Homo sapiens 14032 Jaggeoz genre, compress (DKFZP586M0122), mRNA	Homo sapiens 14032 Jappe Complete cds: and unknown gene	Homo sapiens 14032 Jagged Sone Complete cds; and unknown gene	Homo sapiens 14432 Jaggete Poins, Complete cds: and unknown gene	Human beta-tubulin (1 00-14) series complete cds; and unknown gene	Human beta-tubulin (100-14) Bons complete QS	Human beta-tubumi (100-4) bene complete cds	Homo sapiens cirio in Occidenti Provincia	Homo sapiens paruai Cibi Boile, Chromosome-like (CDYL) mRNA	Homo sapiens paruai C-igi geire, exons 2 and 3	(KIAA0929), mRNA	Homo saplens KIAA0929 protein Msx2 interacting flucted wild.	os98e03.s1 NCI_CGAP_GC3 Homo sapiens CUNA CONSTITUTE (MINT) homolog	os98e03.s1 NCI CGAP GC3 Homo saplens CUNA Clone IMAGE: 1613404 3'	Homo sapiens thyrotrophic embryonic factor (1Er), IIIVIV	Homo saplens thyrotrophic embryonic factor (TET), Illinois	Human ras inhibitor mRNA, 3' end	Human ras inhibitor mRNA, 3' end	Human ras Inhibitor mRNA, 3' end	Homo sapiens of cardiac alpha-myosin tiesayy drain gone	Homo sapiens of cardiac alpha-myosin meany chain nane	Homo saplens of cardiac alpha-myosii heavy chain oane	Homo sapiens of cardiac alpha-myosin heavy chain gene	Homo sapiens kallistatin (PI4) gene, exons 1-4, complete cds	

		-	_	2.2	11568	6408 8608	1278	_
Homo sapiens Wolfram syndrome (WFS) mRNA	5174748 NT	5174	, ,	Ī	Γ	Т	1266	
Homo saplens mRNA for KIAA1507 protein, partial cos	NT	AB040040 1	,		Γ	Г	1266	_
Homo sapiens mkny to Nixx took protein, parties on	N.	AB040940.1	0	1	$\int$	Т	1500	_
cds	N.	AF084479.1	0	.is	11550	6389	1280	
Homo sapiens Williams-Beuren syndrome deletion transcript 9 (WBSCR9) IIIANA, Campion			1		ا ن	0302	1253	
Homo sapiens ribosomal protein 32 (Nr 32) IIINNA	4506718 NT	4506	1	180	Τ	3 2	1245	
Homo sapiens NF2 gene	N	Y18000.1	9	1.5		6374	1221	_
Homo sapiens chondroltin sulfate proteoglycan 4 (meianoina-association) (voi	4503098 NT	45030	0	. <u>.</u> သ	11521	6357	1997	
Will College (CSPG4) mRNA	2	AF109/18.1	0	3.6	11520	6356	1226	-τ
Homo sapiens chromosome 3 subtelomeric region	N	AF264/50.1	0	1.0	11497	7909	1208	<b>-</b> T
Homo saplens ALR-like protein mRNA, partial cds	NT.	AF 204 / 50. 1	6	1.3	11496	6339	1207	_
Homo saplens ALR-like protein mRNA, partial cds	1 2	AF264750.1	0	=======================================	11495	6338	1206	_
Homo saniens ALR-like protein mRNA, partial cds		AF264/50.1	0	===	11494	6338	1206	7
Homo sanlans ALR-like protein mRNA, partial cds	NIT.	1910007001	C	1:1		6323	1191	_
Homo sapiens mutt. (E. coli) homolog 3 (MLH3), mRNA	36 NT	76573		1.0	11452	6296	1161	
Homo sapiens keratin 18 (KRT18) mRNA	R7 NT	4557887 NT	, c	0.5	11443	6289	1154	
Homo sapiens mRNA for KIAA1414 protein, partial cds	27	10070261	, (	0.0	114	6287	1152	_
mRNA	76_NT	7305076 NT		0				_
Homo sapiens glutamate decarboxylase 1 (brain, 67kD) (GAD1), transcript variant GAD25,	/0 N-	1303070 NI	l	0.8	11440	6287	1152	_
mRNA	76	73050	,					T
Homo seniens chitamate decarboxylase 1 (brain, 67kD) (GAD1), transcript variant GAD25,	2	AB020/10.1	0	1.4	11419	6267	131	· T
Homo sanians mRNA for KIAA0903 protein,	EST_HUMAN	AI147650.1	0	1.0	11417	6265	1129	_
qb22d10.x1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:169/011 3						100	1120	Т
Homo sapiens News-cinding protein News- (2000)	NT NT	7706500	٥	1.0	11416	3	1 2	Т
Homo sapiens similar to rat integral institutions by opposition	NT	7657468 NT	0	0.7	11413	838	1424	_
manhane civeoprilein POM121 (POM121L1), mRNA		/00/400 11	c	0.7	11412	6261	1124	
Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mknyk	<u> </u>	785746	,			200	3	Т
	NT	AB002059.1	٥	4.1	1	3 5		T
Homo saptens DNA for Human room, complete and	NT	AB002059.1	٥	3.5	11410			T
	NT	8923290 NT	٥	0.9	11408			Т
Homo sapiens ribosomai protein 5278 (NF 5277) IIIN 97	2 NT	4506712 NT	٥	1.6	11406	3 2	117	T
Homo sapiens protein killase, Allineo (Fixey) iii. 30.	7 NT	4826947 NT	0		11405	3		T
TOTIC Sapielis project chance Y linked (DRKX) mRNA	7 11	4826947 NT	0	1.1	÷	6253	1118	T
Lung agricus protein kingse X-linked (PRXX) mRNA	12	7706134 NI	0	1.3	11394	6241	100	Т
	1	7706134 NI	0	1.3	11393	6241	<del>1</del> 00	Т
lump copione potaestim channel subfamily	EOI TOWN	BE005208.1	0	1.2	11369	6218	8	T
MR0-BN0115-200300-003-h08 BN0115 Home	Ĭ	4/5811/NI	0	1.2	11359	6204	1066	Т
Homo servine Cheath associated protein 3 (DAP3) mRNA	4 N -	51/4384 NI	0	1.1	11350	6197	1058	T
	N.T.	10 /805Z88		0.9		6195	1056	٦
Lucino espiene hypothetical protein FLJ20080 (FLJ20080), mRNA								

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1659 6783	57 6781	П	52 6777	0 6775	0 6775	6 6772	Т		1 6717	6702	6700		6698	6698	6696	7920	6690	Г	Т	Т		8999	6668	6658	7919	6657	6657	6654	6649	6648	6647	6647	6646		<b>2</b>	86 42	6642	
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H30132.1	45576	,007	76570	45578	M29580.1	M29580.1	AF057177.1	AI768104.1	H26973.1	1000:	M01803 1	5729876 NT	5729876 NT	7662183 NT	7662183	AF157476.1	AR040905.1	5921460 NT	5921460 NT	Z83738.1	4503098 NT		4507720 NT	4507720 NT	M14199 1	4506654 NT	4507720 NT	4507720	M98478 1	7656972	7662405 NT	4505404 NT	4505404 NT	U78027.1	DTUBBA. I	-		AE033860 1
EST_HUMAN	4557610 NT		7857065 NT	4557887 NT	Z	NI	Ŋ	EST_HUMAN	EST_HUMAN		Y.	76 NT	6 NT	SINT	3 NT	Y.	Z <sub>T</sub>	ONT	ONT	NT NT	8 NT		TN	INT	NT.	NT	S	NT	3	NT N				NT				IN
gb:M64089 GAMMA-GLU I AWITE I AWARE TO THE STATE OF THE S		Homo saniens camma-aminobutyric acid (GABA) A receptor, gamma 2 (GABRG2) mKNA	Homo saplens v-ets avian erythropiastosis virus E20 viros Bore	Homo sapiens keratin 18 (KK i 10) in NYS	Human zinc-finger protein / (2rr/) linker, writers	Human zinc-inger protein ( ) - PNA complete cds	Homo sapiens 1-call leceptor British RNA, complete cds	IMAGE:2371477 3' similar to TR:Q62788 Q62789 C1327132 E1737 Toll recentor namma V1 gene region	wg81b07.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo saplens cDNA clone	vo76c05.s1 Soares adult brain N2b4HB55Y Homo sapiens cDNA clone IMAGE: 103040 3	Human sodium channel mKNA	Homo sapiens heat shock 70kD protein 10 (risor) / (risor)	Homo saplens heat shock TUKU protein 19 (1907-1) (HSPA10), mRNA	Homo sapiens KIAA0569 gene product (NAA0569),	Homo sapiens KIAA0569 gene product (Nichabse) mBNA	Homo sapiens DNA polymerase zera caral as consequent (Planta Ansas) mRNA	Homo sapiens mRNA for NIAA 14/2 Pictorini, Establish (REV3) mRNA, complete cds	Homo sapiens puryropinini, subranniz -, protein, partial cds	Homo sapiens pulylophillin, subfamily 2, member A1 (BTN2A1), mRNA	H.Sapiers in zoro Botto	TUING explana	Long capiens chondroltin sulfate proteoglycan 4 (melanoma-associated) (COF G4), III (MA)		Homo sapiens titin (TTN) mKNA	Human laminin receptor (2H5 epimpe) Hillwry, 8 5	Homo sapiens ribosomal protein L5 (KFL5) Illinias	200	Homo sapiens titin (TTN) mKNA	Human transglutaminase mRNA, compieue cus	Homo sapiens TNF-inducible protein CG12-1 (CG12-1)	Homo sapiens KIAA0957 protein (NAXOUST), IIIN TO MRNA		Homo sapiens transmembrane glycopiotein (GPNMB) mRNA	hbosomal protein (L44L) and FTP3 (FTP3) genes, complete was	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-U-garactosidase (CC)	Bovine mRNA for neurocalcin	Cercoplithecus aethlops cyclophilin A mKNA, curi press cur	

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Homo sapiens K	TTOGGGG NIT	6	1.0	11709	5 6536	2015
Homo saplens KIAA1114 protein (KIAA1	7705565 NT	†   	1:3		4 7128	2014
Homo sapier	4505606 NT	3	3	Τ	Г	2013
hemophilla B) (F9) mRNA	4503648 NT	0	<u>.</u>		-	
Homo sapiens coagulation factor IX (plas	453/66/ [N]	0	:1	12326	$\Box$	2011
Homo saniens keratin 18 (KRT18) mRN/	455/88/N1	0	1.1	٦	┪	2011
Homo senions keratin 18 (KRT18) mRNA		. 0	0.8	Т	Т	1955
H.sapiens gelies to sellicings		0	0.9	T	Т	1948
it pasions comes for semenogelin I and s	Z47556.1	0	0.9	12259	┒	1048
H sapiens genes for semenogelin I and s	0912431		3.0	12257	7063	1946
Homo saplens calcineurin binding protein	6040457 NT	-	3.0	12256	7083	1946
	3 2		1.3		7062	1945
HIMAN XI69b01.x1 NCI CGAP Pan1 Homo sapi	EST	0	1.3	П		1945
L	2	0	0.7	٦	Т	1023
Human Tree protein mRNA partial cds		0	0.7	12252	Т	1043
DOLLO Sabion	AB018333.1 NI	0	1.2	1224B	Т	3 3
Homo sapiens mRNA for KIAA0790 protein, partial ods		0	1.2	12247	Т	1937
Homo sapiens acumin, alpha to the Antique par	4826638 NT	٥	2.9	12235	Т	1037
Homo sapiens acunin, aiplia 4 (ACTNA) mRNA	4826638 NT	٥	2.9	12234	Т	1037
Homo sapiens nebulin (NEB), Illinia	8400716 NT	9	12	19933	1000	0761
Homo sapiens negulin (NEG), Illivian	8400716 NT	٥	2	1933	7	4781
Homo sapiens chromosome 21 seguinario	AL163252.2 NT	٥		154.0		2181
Homo sapiens histidine ammonia-tyase (1745) 11111111	4809282 NT	٥	2	312	100	1913
Homo sapiens histidine ammonia-yase (	4809282 NT	0	0.7	3347	36.5	1905
Homo sapiens butyrophilin, subfamily 3, member AZ (B1193AZ), IIII 1995	5901905	٥	9 5	33	7021	1903
Human topolsomerase i pseudogene 1	MESSES 1 NT			12202	7012	1895
Homo sapiens transforming growth factor,	4507464 NT	0	0.8	12201	7012	1895
Homo sapiens transforming growth factor.	M984/6.1		1.5	12194	7929	1890
Human transglutaminase mRNA, complete cds		0	1.5	12193	7929	1890
Human transplutaminase mRNA, complete cds	1	0	0.6		7007	1889
Homo sapiens DNA polymerase zeta catal	O O O O	0	1.3	12184	6999	<u>2</u>
Homo sapiens RAD1 (S. pombe) homolog	450000# INT	0	1.3	12183	6999	<u>8</u>
┙	٦,-	-	5	12155	6970	1852
			0.8	12136	6951	1832
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	AW207280.1 EST_HUMAN		0.5	12117	6928	1809
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	7B22E10 Chromosome 7

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2306	2305	2304	2300	2000	3	2291	2280	2280	2275	2274	2271	2264	2263	2258	2256	2256	2254	2212	2209	2209	2206	2199	2193	2174	2169	2169	2168	2168	2160	2160	2159	
6 7409	5 7408	4 7407	1	Т	Т	1	╗		_	$\neg$	$\neg$	Т	7369	П	7362	7362	7360	7320	7318	7318	7315		7302	П	7.	Т	Т	7	7269	7269	/200	
9 12616		7 12615	T	T	Т		$\neg$	12593	12589	$\sqcap$		T	12579	12573	12571	12570	12568	12534	12532		12528				$\neg$	12490	12489	12488	12480	12479	0/471	
1.0	2.1	0.6	1	1		1.5		0.6		3.7	1.0		1.2	0.8	0.8	0.8	0.9	1.4	0.9		1.1	0.5		1.0	1.0	1.0	0.8	0.8	0.9	0.9	5.	0.7
0	0	0		0	0	0	0	-	0	0	0	0	0	0	0	0	0	6	6		٥	0	0	0	0	0	0	0	0	0	,	•
AW86/0/6.1	4506586	AF246302.1		5174678 NI	AF058332.1	AF058332.1	5803178 NI	58031/8/NI	AI625542.1	AF044571.1	Al347926.1	6325466	4826783 NT	AJ010230.1	AA429001.1	AA429001.1	AI076404.1	ABU3//84.1	INICORTOD!	7661065	ABUZ3185.1	/662401	455/556	U36264.1	7662401 NT	7662401 NT	AL163204.2	AL163204.2	AA042813.1	AA042813.1		BE018750.1
EST_HOWEN	] Z	N		8 NT	NT	3	BNI	BNI	EST HUMAN		EST_HUMAN	3	NT.	2	EST_HUMAN	EST_HUMAN	EST_HUMAN	-		27		27		2	TN	NT.	NT	NT	T_HUMAN	EST_HUMAN		EST HUMAN
	NOTICE SAPIRITE TO THE PROPERTY OF THE PROPERT	8	Homo sapiens peroxisome proliferative activated receptor della (PPARU) gene, excus / and	Homo sapiens signal regulatory protein, Data, T (SIKY-BETA-1) ITINY		Homo Sapiens uun (11N) gene, aitemative spiice products partial cris	Homo sapiens sperili specilic analysis college products, partial cds	TOTAL SADISTING PROCESS OF THE PROCE	Homo coolean specific antinen 2 (SSFA2), mRNA	Homo sapiens prospirit years surious cripria commit ( )	qp60/09.X1 NCL CGAY Coo rights spirit (PHKA2) gene, exon 32	Homo saplens flavin containing monophygeriase of the MAGE:1927433 3	(KCNB1) mRNA	Homo sanians notassium voltage-gated channel, Shab-related subfamily, member 1	2v78a11.r1 Soares_total_fetus_Nb2HF8_9w Homo sapiens culva content in access of the content in t		IMAGE:16748283	2700c07 x1 Spares fetal liver spieen_1NFLS_S1 Homo sapiens cDNA clone	Lomo sanlane mRNA for KIAA1363 protein, partial cds	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA	Lomo seriens KIAA0170 gene product (KIAA0170), mRNA	Homo sapiens mRNA for KIAA0978 protein, partial cds	Long spriese KIAA0952 protein (KIAA0952), mRNA	Long entiens E1A binding protein p300 (EP300) mRNA	Homo sapiens KIAAU932 pioteili (NIAV932) gene exon 16	Homo sapiens KIAAU992 protein (XIAAA9922), IIINAA	Homo sapiens chromosome z i seginerit i oz i oco	Homo sapiens chromosome 21 segment HS21C004	zk53c07.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cuiva ciulie iricaci	similar to gb:X65857_ds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);	THE 2007 61 Spares pregnant uterus NbHPU Homo sapiens cDNA clone IMAGE:486540 3'	bb84e02.y1 NIH_MGC_10 Homo sapiens cDNA done IMAGE:3049082 5' similar to TR:Q15170 Q15170 TRANSCRIPTION FACTOR S-II-RELATED PROTEIN;

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2475	2474	2473	2472		2471	2469	2467	2463	2462	2457	2444	2444	2700	3430	2428	2419	2414	2414	2410	2398	2380	2390	2386		2382	2369		3385	2307	2315	2310	2310	2308		2308		2307	
		Г	П		1 7569	П	$\neg$	-1	2 7561	7556	7543	38	7	(	Т	П	7	_1	7509	7498	7490	7490	7487		7484	7471		248	3	7413	7413	7413	7411		7411		7410	
7573 12/		T	Τ		12771	57	5 12768	4 12203	1 12765		3 12752	12/31	$\neg$			٦	12721		12717			12694	12690			12673				12622	12621	12620	12619	<u>.</u>	12618		12617	
12//5		T	T	0.7	0.7	2.0			Γ	Γ		1	0.8	1.3	1.0	0.8	0.9					Γ			0.6	1.0		1.3	1.0	2.7	2.7	2.7	0.0	> n	0.0	n n	0.7	
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	450	892	450	765	AF058953.1		232007.2	ડા	7657	4506744	AVA 1 3 4 5 3 1		54530	AW501010.1	VANAMA	AW/488032 1	4557887	4507280 NT	4507280 NT	5729777 NT	AE106275.1	D85606.1	D85606.1	6006002 NT	2 00000	AE066330 1	AW/202008 1	AP012072.1	1N 1 CC000011	20000	4505332 NT	4505332 NT	4505332 NT	4758497 NT		4758497 NT	10000	TN 25042
	4507524 NT	8923340 NT	4507720 NT	7657468 NT	NT		5453871 NT	NT	7657038 NT	죄	5453965 NI EST HUMAN	1	5453965 NT	EST_HUMAN			87 NT	80 NT	80 NT	77 NT	NT	NT	NT	NT NT		N <sub>1</sub>	EST HUMAN		NI	NT	NT	NT	NT	NI		N <sub>1</sub>		NT .
	Homo sapiens ualisibleaton promise.	Inditio septens types in protein 1 (TLOC1) mRNA	2	Long services (IIIn (TTN) mRNA	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA	Homo sapiens ATP-specific succinyl-CoA synthetase beta succinii (VVV)	[Homo sapiens platelet-derived grown lactor towns [Homo sapiens platelet-derived grown lactor towns]	[Homo sapiens mRNA for membrane ualispots procedure (PDGFRL) mRNA	Homo saplens death receptor of Chick		$\Box$	Homo sapiens protein kinase, AMF-activated, april	Homo sepiens process.	OF-TIT-ED OF STATE OF THE STATE	I LE BEOCATA-07-0-UI.TI NIH MGC_51 Homo sapiens CUNA Clotte IMACE.	ha04h04.x1 NCI_CGAP_KI012 NOITO SEPTIMO SEPTIM	Homo sapiens keraun 16 (NN 19) 111 111 11 11 11 11 11 11 11 11 11 11	Homo sapiens senneruredume Aliaco CA		Homo sapiens collagell, type Alinase 9 (STK9) mRNA		Homo saplens gene ioi Civil System 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Homo sapiens gene for Cholecystokinin type-A receptor, complete cds	holecystokinin type-A receptor, complete cds	Homo sapiens glutamate receptor, lonotropic, N-methyl D-asparate Colonia -	Homo sapiens AK2B processed pseudogono	to TR:O54924 O54924 EXO84. ;	xy15f07.x1 Soares_NFL_T_GBC_ST FIGHTUS September 5	Homo sapiens phosphatidylinositol 4-kinase 230 kin. 37 June 1MAGE:2813221 3' similar	Homo sapiens hypothetical protein FLJ 10010 (1 E 10010) mRNA, complete cds	Homo saplens nuclear autoantigonic Charles (F) (10618), mRNA	Homo sapiens nuclear automitienic sperm protein (histone-binding) (NASP) mRNA	Homo sapiens nuclear experiments soem protein (histone-binding) (NASP) mkina	mRNA (NASP) mRNA	Homo sapiens nexoserophicspilica	mRNA (H6PU),	Homo saplens hexase-6-phosphate denyarogenese (glucos)	Homo sapiens KIAA0244 protein (KIAA0244), mRNA

TOTAL CONTROL OF	AB011106.1	0	1.2	12902	7703	2613	
	AF1/322/.1	6	Γ	12901	7699	2609	
Homo sapiens quanylate cyclase-activating	U78027.1	0	==		7698	2608	
Homo sapiens Bruton's tyrosine kinase (o				Т	Π.	.003	
	4507720 NT	•		Т	7040	2504	
Homo sapiens IMP (inosine monopilospila	4504686 NT		T	12890	Т	2505	
NT Human natural Killer Gell enhancing lactor (NTC) - 1 (IMPDH1) mRNA	L19185.1	0	3.8	1	1	32	
THUMAN	BE293328.1	0		T	Т	2577	
	AF129756.1	0	1.0	12870	7667	2574	
BAT5, G5b, CSK2B, BAT4, G4, Apo M, BAT3, BAT2, AIF-1, 1C7, LST-1, LTB, TNF, and LTA							
NT geries, winiples we hardal cds; and CLIC1, DDAH, G6b, G6c, G5b, G6d, G6e, G6f,	AF129756.1	0	1.0	12869	7667	2574	
BAT5,							
Homo sapiens MSH55 gene, partial cds; and CLIC1, DUAn, Gou, Gou, Gou, Gou, Gou, Gou, Gou, Gou			!!	12000	П	2273	
NT Homo sapiens mkNA for kirk 1450 protein, period was	AB037859.1	0	2.1	12868	Т	3573	
	5032150 NT	0	0.8	12866	7664	2571	
EST HUMAN (2 (110 MANY).  Homo sanians TATA box binding protein (TBP)-associated factor, RNA polymerase II, I, 28kD	AI571737.1	°	1.0	12865	7663	2570	
				···			
in 19508 x1 NCI CGAP Bm25 Homo saple	ABUSTINE	c	1.3	12864	7662	2569	1
Homo sapiens mRNA for KIAA1321 protein	3	,	1.2		7656	2562	
	4504866	,	i	1285/	7654	2560	) —
	3955	3	-		7648	2554	
EST HUMAN   MR0-BT0659-280200-003-c06 BT0659 Homo Sapiens CLINA		, اد		12021	10/0	2553	
NT Homo sapiens mRNA for KIAA1415 protein, partial cos		٥		12020	7070	2553	
		٥,	0 :	12000	è	2040	
HUMAN  601173631F1 NIH MGC 17 Homo sapiens		0	4 5	12826	1010	2514	_
QV3-DT0045-140200-082-e11 DT0045 Hon		اد	3	200	è	2511	_
EST_HUMAN TR:000246 HYPOTHETICAL 9.3 KD PROTEIN :	AW589700.1	0	<u>.</u> 5	3840	7037		
hariosof vi NCI CGAP GC6 Homo sapiens	4506402 N	٥	1.2	12809	7606	2510	_
	450640Z N	0	1.2	12808	7806	2510	_
Homo capteris argininos acid induced 3 (RAI3)	4557336 NI	0	1.4	12807	7605	2509	_
itamo conione amininosuccinate synthetase	455/330 NI	0	1.4	12806	7605	2509	_
EST HUMAN SIMilar to MARKAS Mad ix Terrivolating concerns a supplied synthetase (ASS), mRNA	AW888221.1	0	1.0	12791	7585	2488	
				11.00	٤	2400	
EST_HUMAN contains element MSR1 repetitive element;	AI804747.1	0	<u>.</u>	19788	7593		
hidoc11 x1 NCI CGAP Pr28 Homo sapiens cDNA clone IMAGE:2253716 3' similar to	AI804/4/.1	0	1.6	12787	7583	2486	_
tu42c11.x1 NCI_CGAP_PIZ6 Home sapiens				-	- 19	2401	
	8051635 NT	٥	0.6	12781	7570	2484	7
XPOTI, mRNA							

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2761	2758	27.	2742	2741	2730	2727	2723	2723	2719	2719	2718	2717	2716	2716	2715	2715	2713	2712	2/03	2770	2708	2701	2700	2698	2691	2690	2656	2628	2627	2626	2622	2619	2619	2617	2616	
61 7845	$\top$	7832	2 7826	1 7825	٦	7 7811	3 7807	3 7807		_	8 7802	7801	7800	7800	Г	Г	Т	Ţ	T	7704	7793	7787	7786		7778	7777	7745	7718	7717	7716	7712	7709	7709	7707	7706	
5 13047	2 13045	<u> </u>	6 13030	5	13020	1 13017		П	13008	13007		13006	Γ	Γ	Π	T	Т	12000	T	12995	12994	12987	12986	12984	12975		12945	_	12918	12917	12912	12909	12908	12906	12905	
3.5		:	1.3	1.3					0.6	0.6	5.7	0.8	0.9	c.e				1 2 2	13.5	3 2	10.4	3.7	=	1.3	0.9	3.2	0.6	15	1.2	100	1.3	1.2	i2	0.5	1.0	
0	0	0	c	-	, 0		, -	, -	-	,		, c	)  -		1	1	=		0	0	6	, 0	-		c	0	c		9	, -	,	, c	0	,	, c	
AA490647.1	7427522 N	4503098 NT	D03073.1	AL 103201.2	AL 162201 2	10010	4504918	4757963 NT	4757963 NT	102 1990.1	1917.1	M44447 1	7661839INT	8923441 NT	8923441 NT	5174486 NI	5174486 NT	AI065139.1	4506696	T07303.1	100002.	AF 110703.1	AE440763 1	7669517	JUSSST. I	3.1		8922843 NT	7662223 NI				1122277 1		4500442 NT	
EST_HUMAN	N ZZN	B NT	-	NT		FST HUMAN	BUT	3 NT	3 NT	3	N.T	NT	9NT	N	NT	NT	NT	EST_HUMAN	N	EST HUMAN		N.T.	T	NT	NT	EST HUMAN		<b>S</b>	ST		EST HUMAN	EST HUMAN				NI
element ;	aa01g04.r1 Soares_NhHMPu_S1 Homo saplens cDNA clone IMAGE:812022 5 Similar to aa01g04.r1 Soares_NhHMPu_S1 Homo saplens cDNA clone IMAGE:812022 5 Similar to	Homo saniens protein tyrosine phosphatase, receptor type, T (PTPRT), mRNA	Homo saniens chondroitin suifate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA	Human mRNA for KIAA0156 gene, complete cds	Homo saplens chromosome 21 segment HS21C001	ĮŢ	Homo sapiens keratin 8 (KRT8) mRNA	Homo sapiens cerebellar degeneration-related protein (34kD) (32kV)	Homo sapiens cerebellar degeneration-related protein (34kD) (CDR1) mRNA	Human membrane protein-like protein mRNA, parual cus	Human membrane protein-like protein mKNA, parual Cus	Human ferritin L chain mRNA, complete cos	Homo sapiens HT002 protein (HT002), mRNA	Homo sapiens hypothetical protein ruzowi / \ \ Luzowi / \ \	Homo sapiens hypothetical protein ruzzoni (r. 190477) mRNA	Homo sapiens spermatogenesis associated 5 (5) mRNA	Homo sapiens spermatogenesis essecreted PD1 (KIAA0757) mRNA	HA0977 Human reus liver colors in second alad PD1 (KIAA0757) mRNA	Cotal library Homo sapiens cDNA	similar to Ring canal protein S20 (RPS20) mRNA	(cat#93	Human mRNA for T-cell cyclophilin	Homo sapiens skeletal muscle LIM-protein 1 (FML1) gette, compress see		Human beta-prime-adaptin (BAM22) gene, exon 5	to ribosomal protein L29 Human ribosomal protein S6 mRNA, complete cds	EST188414 HCC cell line (matastasis to liver in mouse) in local support	Homo sapiens hypothetical protein FLJ11022 (FLJ11032) II Homo sapiens cDNA 5' end similar	Homo sapiens KIAA0649 gene product (KIAA0649), IIIINA	Homo sapiens SWI-SNF complex protein p2/0 mRNA, partie SS	ou58e08.s1 NCI_CGAP_Br2 Homo sapiens CUNA Gone IMAGE. 1995	RC1-OT0086-220300-011-d07 OT0086 Homo sapietis conv	Human Zn-15 related zinc finger protein (ni) mxivx, will place	Human Zn-15 related zinc finger protein (ri) many, complete cos	Homo sapiens bullous pemphigoid antigen 1 (23th/24th/d) (br. 23th/	

		100, 100	,	42	10100	2000	1007	_
	ZT	4507280 NT	٠,	3 2	3400	Т	2040	
	NT	4503470 NT	5	25.1	13080	Т	30,50	
Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA	NT	4503470 NT	0	25.1	13088	╗	2840	
	NT	AF152303.1	0	1.0		$\neg$	2839	
H.saplens mRNA for nuclear DNA helicase li	N.T.	Y10658.1	0	4.6		1	2838	
Novel human mRNA from chromosome 1, which has similarities to BA12 genes	ZŦ	AL096857.1	0	1.3	13087		2837	
Homo sapiens gammma-cytopiasmic actin (ACTGP3) pseudogene	NT	D50657.1	0	43.5	13084	_	2833	
	NT	D50657.1	0	43.5	13083		2833	
Human transglutaminase mRNA, complete cds	NT	M98478.1	0	2.6	13079		2828	
	NT	AL 163268.2	0	2.8			2826	
H.sapiens Id3 gene for HLH type transcription factor	NT	X73428.1	0	1.4		$\neg$	2824	
PM0-HT0343-281299-003-e02 HT0343 Homo sapiens cDNA	EST_HUMAN	BE154504.1	0	1.6	13076		2822	
PM0-HT0343-281299-003-e02 HT0343 Homo sapiens cDNA	EST_HUMAN		0	1.6	13075	7	2822	
Human AHNAK nucleoprotein mRNA, 5' end	NT	M80902.1	0	5.9	13073	_	2819	
Homo sapiens chromosome 21 segment HS21C001	NT	AL163201.2	0	2.2	13070	$\neg$	2815	
U83b snoRNA genes	NT	AJ238852.1	0	1.1		7965	2814	
Homo sapiens mkny for Niyy 1927 piotein, partein 13 1182 conRNA 11822 conRNA and	2	AB040960.1		===		7960	2808	_
	NT		0	1.3			2806	_
	IN		0	2.4	13066	7957	2805	
	NT	4503202	0	1.2	11317	6163	2789	
. –	NT	4503202 NT	0	1.2	11316	6163	2789	
. 1 55	NT	AF264750.1	0	1.4	11012	5871	2784	
Homo saplens ALR-like protein mRNA, partial cds	NT		0	1.4	11011	5871	2784	
Homo sapiens BTRCP2 mRNA for F-box and WD-repeats protein isoform C, complete cds	NT	AB033281.1	0	0.7		7860	2778	
glycoprotein D=Duffy group antigen [human, blood, Genomic DNA, 3058 ht]	NT	S76830.1	0	1.6	10498	5373	2775	
	NT	4506648	0	3.7	13058	7854	2770	_
Homo saplens ribosomal protein L3 (RPL3) mRNA	NT	6648	0	3.7	13057	7854	2770	_
UI-HF-BN0-amb-d-02-0-UI.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3081626 5'	EST_HUMAN	AW505486.1	0	1.1	13056	7853	2769	
UI-HF-BN0-amb-d-02-0-UI.r1 NIH_MGC_50 Homo saplens cDNA clone IMAGE:3081626 5'	EST_HUMAN	AW505486.1	0	:1	13055	7853	2769	
Homo sapiens keratin 8 (KRT8) mRNA		4504918 NT	0	==	13054	7851	2767	_,
Homo sapiens myelin transcription factor 1-like (MYT1-I) mRNA, complete cas	NT	AF036943.1	0	0.7	13053	7850	2766	
	Z	6912633	0	4.0		7847	2763	
	EST_HUMAN	AA490647.1	0	<u>မ</u> မာ	13048	7845	2761	
PAGE A Sparse ANNUADI. 64 Homo socione CONA Clone IMAGE:812022 5' similar to								1

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101	2020	3037	2927	2924	2917	2917		2915	2915	2902	199	2002	2901	2901	2898	2898	2897	2897	2882	2881	2879	2879	2878	2877	2874	2867	1000	2886	2866	2858	2858	2856	2855	2855	2854
Г	╅	7	7	╗	8068	8068		8066		8053	$\neg \tau$	8053	8052		7	П	┪	7	$\neg$	Т	8030	8030	8029	8028	8025	8018		8017	8017	8009	8008	8007	8006	8006	8005
			٦	13183	13178	13177		13175	13174	13158		13157		13155	13152	13151	13150	13149	13137	13136	13134	13133	13132	13131		13122		13121	13120	13109	13108		13106	13105	13104
Ī	T	1	٦	1.6	0.9	0.9		2.0	2.0	3.2		3 3.2	2.7		5.0	5.0	1.3				သ	1.3	18.7	1.2	3.1	1:1		1.6	1.6	5.0	5.0	3. <b>4</b>	1.3	1.3	1.4
	0	٥	0	0	0	c	·	0	0	0		0	0	0	0	0	0	0	0	0	•	0	c	, -		0		٥	0	0	0	0	0	٥	0
	AF106275.1	X15309.1	X15309.1	4758827 NI	4885214 NT	10004	488521	4505084 NI	4505084 N	51/45/4 NI		5174574 NT	INICOGLOGY	7661903 NT	AB040941.1	AB040941.1	AB033093.1	AB033093.1	AF152338.1	P52740	AI561002.1	AI561002.1	100011	4603476	19210.1 NI	AA215579.1		AL163206.2	AL163206.2	BE081896.1	BE081896.1	4503098 NT	7661883 N I	/661883 N1	AL047599.1
	NT	NT	NT	77 NT	A NT	14	ZT	22	2	2		4 NT	N-	3 2 7	N	N.	3	N <sub>1</sub>	Z	SWISSPROT	EST_HUMAN	EST_HUMAN		NT	NT I	EST_HUMAN		NT	N <sub>T</sub>	EST_HUMAN	EST_HUMAN	1	Z	2	EST_HUMAN
	Homo sapiens immunoglobulin-like transcript 1c variant 4 (IL.110) gene, excit o		H.sapiens NF-H gene, excit 4	(A)	mRNA III (AIBYN3) mBNA	Homo sapiens v-erb-a avian erythrobiastic leukemia viral oncogene homolog-like 4 (ERBB4)	mRNA	Homo sapieno y est a sidan enditroblastic leukemia viral oncogene homolog-like 4 (ERBB4)	Homo sapielle melanolita airugeri, iariing e. T. (MAGEB4). mRNA	ualisiocated to, 7 (mcc. 7) mero.	Homo sapiens myeloid/lymphold or mixed-lineage leukemia (tritriorax (brosopiilia) irunivine).	translocated to, 4 (MLLT4) mRNA	(fithorax (Drosophila) homolog);		Homo sapients minion to product (Kinanoton) mRNA	Homo sapians mrNA for NIAA1508 protein, partial cris	Homo sapiens minna for NIXA 1207 protein, partiel cale	Homo sapiens mRNA for NIXA (201 protein, partie) cde	Homo sapiens protocadnenn gamma C4 (CCC) Barring C7/	ZINC FINGER PROTEIN 132	TR:O16247 O16247. F44E7.2 PROTEIN. ;	TR:016247 016247 F44E7.2 PROTEIN.;	In18d07.x1 NCI_CGAP_8m25 Homo sapiens cDNA clone IMAGE:2167981 3' similar to		Homo sapiens EphA4 (EPHA4) mRNA	CONTAINS AND repeature elements.	2796b11.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone (MAGE:000017 3 similar w	Homo saplens chromosome 21 segment nozitore		QV2-BT0636-130400-138-nu3 B1 0030 numb sapiens curvo	QV2-BT0636-130400-138-nu3 BT0636 Home Sapiens CDNA	Homo sapiens chondroitin sulfate proteoglycan 4 (meianoma-associated) (Cor. Cor.,	Homo sapiens Nichwood going Processi i manage ( 1990) (CSBGA) mRNA		DKF2p586G0621_r1 586 (synonym: hute1) Homo sapiens cDNA cione DKF2p586G0621_r1 586 (synonym: hute1) Homo sapiens cDNA cione DKF2p586G0621_r1 586 (synonym: hute1) Homo sapiens cDNA cione DKF2p586G0621_r1

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3163	3156	3156	3145	3145	3140	3123	3115	3115	3111	3102	3075	3074	3069	3068	3047	3043	3038	3019	3017	3014	3011	3009	3009	301	2992	2990	2965	2965	2964	2954	2953	2943
		8305	8294		$\neg$	8272				8252	8226	8225		-	П		П	$\neg$	8169		$\neg$	$\neg$		$\neg$		╗	8116	8116	8115	П		809
	13416	13415	13403			13377		13368		13356	13324	13323		13318	13299		13292	13271		13267		13263	13262	13253	13246		13223	13222	13221	13212	13211	
24 7.7	6 1.5	5 1.5		2 4.0		9.4			4 19.6	6 3.5	1.6	3 4.2		8 2.9	9 1.9	1.9	2 2.8	1.0	1.7	7 2.0	5.1	3 7.9	2 7.9		6 1.0		3 1.6	2 1.6		2 2.2	1.0	11
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4504658 NT	4758827	4758827 NT	X98922.1	X98922.1	AI968086.1	T94870.1	AB011121.1	AB011121.1	L20941.1	4826783 NT	AF042075.1	7662139	AF149773.1	AF265208.1	AF064589.1	AF199355.1	X03529.1	4504664 NT	AF196779.1	AF017433.1	AL359403.1	5579469 NT	5579469 NT	4506882 NT	M74099.1	AL163246.2	5729755 NT	5729755 NT	7662273 NT	AB004884.1	4506118 NT	AI149880.1
NT	NT	NT	ZI	Z	EST_HUMAN	EST_HUMAN	T	NT	Z	NT	Z	N	T	N,	NT	NT	NT	NT	NT	3	NT	NT	NT	NT	NT	NT	NT.	NT	ZT	NT	NT	EST_HUMAN
Homo saplens interfeukin 1 receptor, type i (L1K1) mknA	Homo sapiens neurexin III (NRXN3) mxNA	Homo sapiens neurexin III (NKXN3) mKNA	H.saplens mRNA for gamma-glutamy, transferase	H.saplens mRNA for gamma-glutamyttransferase	wu12h10.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2516803 3	y632/03.51 Stratagene lung (#93/210) Homo sapiens culva cione invasce. 119403 Simileo to SP:S29539 S29539 BASIC PROTEIN, 23K - ;	Homo sapiens mRNA for KIAAU549 protein, partial cos	Homo sapiens mRNA for KIAAU549 protein, partial cos	Human ferritin heavy chain mRNA, complete cds	(KCNB1) mRNA		Homo sapiens KIAA0469 gene product (KIAA0469), mkNA	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3	Homo sapiens SWI-SNF complex protein p270 mRNA, partial cos	Homo sapiens melanoma-associated antigen (MAGE-C1) gene, complete cos	Homo sapiens F-box protein FBL5 (FBL5) mRNA, complete cds	Human germline gene 16.1 for Ig lambda L-chain C region (IgL-C16.1)	Homo sapiens interleukin 2 receptor, beta (ILZRB) MKNA	Homo sapiens transcription factor IGHM enhancer 3, JM11 protein, JM4 protein, JM5 protein, T54 protein, JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synaptophysin genes, complete cds; and L-type calcium channel a>	Homo sapiens putative transcription factor CR53 (CR53) mr.na, paruei cus	Isoform 2 of a novel human mRNA from chromosome 22	Homo saplens heat shock 70kD protein 1 (HSPA1A), mRNA	Homo sapiens heat shock 70kD protein 1 (HSPA1A), mKNA		Human displacement protein (CCAAT) mRNA	Homo sapiens chromosome 21 segment HS21C046		Homo sapiens calcium channel, voltage-dependent, gamma subunit 3 (CACNG3), mRNA	Homo saplens KIAA0737 gene product (KIAA0737), mkna	Homo sapiens mRNA for PKU-alpha, partial cds	Homo sapiens prospero-related homeobox 1 (PROX1) mRNA	qf43f09.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1752809 3'

Homo sabiens begoen maniferi encounar process of meners	4502398INI	0	-	13628		8521	3378	
Homo sapiens headed filament stairthral protein 1. filensin (BESP1) mRNA	7662401 N I	0	1.2	13627		7 8520	3377	
Homo sapiens KIAAOSO protein (KIAAOSO) mRNA	7662401 NT	0	1.4	13626		$\neg$	3377	
complete cds	AF211189.1 NT	0 AF21	1.0	13612		<del>-</del> 8504	3361	
Homo sapiens T-type calcium channel alpha1 subunit Alpha1I-a Isoform (CACNA1I) mKNA,					T	Т	0000	
Homo sapiens neuroblastoma-amplified protein (LOC51594), mKNA	7706239 NT	0	4	13611		T	336	
Homo sapiens olfactory receptor, family 10, subfamily C, member 1 (UR10C1), many	7363436 NT	0	1.7		Т	┰	1357	
Homo saplens olfactory receptor, family 10, subtamily C, member 1 (Childrift), Illinois	7363436 NT		1.7		1	┪	3357	
Homo sapiens mRNA for KIAA1507 protein, partial cos	AB040940.1 NT		1.0	٦	T	Т	3298	
Homo sapiens pyrin (MEFV) gene, compiete cus	AF111163.1 NT	0 AF11	11.1	$\sqcap$	I	Т	3296	_
Homo sapiens caspase o, apopusis-related cysteine provedes (coor cymina)	4502582 NT	0	1.0			$\neg$	3292	
Homo sapiens caspase a, apopusis-related cystelling professe (CASPA) mRNA	4502582 NT	0	1.0			$\neg$	3292	_
	7657213 NT	0	1.0			$\neg$	3290	_
Homo sapiens normonally upregulated the unito associated kinase (HINK) mRNA	7657213 NT	0	1.0				3290	
Homo sapiens telomerase reverse unitscriptase (TECL) Botto, cases (HINK) mRNA	AF128893.1 NT	0 AF12	3.0	13544	٦		3289	_
Homo sapiens telomerase reverse utiliscriptese (TEOT) gene exons 1-6	AF128893.1 NT	0 AF12	3.0				3289	-
SW:RL11_RAT P25121 60S RIBOSOMAL F	294.1 EST_HUMAN	0 AI589294.1	4.9	13535		8427	3282	
From Capital and The Control of the	03C3C2		0.9	T	0 13506	8400	3253	-
Homo sarrians hypothetical protein FLJ20695 (FLJ20695), mRNA	AFZ65ZU6.1 NI	L	2.0		Γ	Г	3252	_
Homo seriene SWI-SNE complex protein p270 mRNA, partial cds	1070		3.5		Γ	<u> </u>	3237	_
Homo saniens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA	4502014 NT	, 0	3.5		Г		3237	,
Using sortions & kingse (PRKA) anchor protein 1 (AKAP1), mRNA	004.1 NT	O AFUSSUO4.	4.2		13483	8375	3227	_
Homo spolens very large G-protein coupled receptor-1 (VLGR1) mRNA, complete cds		L	1.2		Γ	Γ	3225	_
helicase (SKI2W), RD, complement factor B (Bt), and complement component << (< </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
Human connexin 43 processed pseudogene	39.1 NT	0 M65189.1	4.4		Ž		3224	
Homo saplens titin (TTN) mRNA	4507720 NT	0	3.4			T	3215	$\neg$
Homo sapiens fibrillin 1 (Martan Syndrome) (FBN I) HIKNA	4557590 NT	0	1.6			$\neg$	3210	Т
	783.1 EST_HUMAN	0 AA774783.1	26.3		П	_	3190	Т
Homo sapiens CREB binding protein (Rubinstein-Tayor syricionie) (CNECC) / 1133 3	58055 NT	0	0.8		П	7	3188	Т
Homo sapiens CREB binding protein (Rubinstein-Tayot syndrollie) (CREBBP) mRNA	4758055 NT	0	0.8		Т	7	3188	Т
Homo sapiens solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 5 (SLC25A5), nuclear gene encoding mitochondrial protein, mRNA	4502098 NT	• 	2 2 		13444	8332	3183	
Homo sapiens nucleolar prosprioprotein bz (wr wr) illiway, will prosprior	19.1 NT	0 M28699.1	2.4				3180	Т
Homo sapiens uin (TTN) mKNA	4507720 NT	0			_	_	3164	Т
Homo sapiens titin (TTN) mRNA	4507720 NT	0	3.3		13425	8313	3164	7

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1.0	1	1 4	1.3	0.8	1.0	0.9	1.4		2.2	2.2	1.1	0.9	0.9	0.9	1.2	2.1	2.1	6.2	1.1	2.9	2.9	2.7	3.7	3.7	1.2	5.5	1.5	1.5	2.1	6.0	1.7	
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	N.T	Z	NT	TN	N	EST_HUMAN	5N7		EST_HUMAN	EST HUMAN	1	EST_HUMAN	EST_HUMAN	EST_HUMAN	N	2	N	N	S	2 NT	2 NT	NT.	EST_HUMAN	EST_HUMAN	NT	TN	2	N	NT	N	NT	
	Homo sapiens mRNA for KIAA1476 protein, partial cds	Novel human gene mapping to chomosome X	Homo sapiens homologous yeast-44.2 protein minute, complete was	Homo sapiens semenogelin II (SEMICA) HINIYA		TR: 000498 000498 MYSTHENIA GRAVIA GRAVIA GRAVIN:	mRNA	Homo sapiens potassium voltage-gated channel, Isk-related family, member 2 (NCNE2)	601143853F1 NIH_MGC_TO HOMO SAPIRIS CUIVA CICIE IMPORTAGE CONTROL		(ZNF45) mRNA (ZNF45) mRNA	ab51f12.r1 Stratagene lung carcinoma 937218 Homo sapiens cDNA cione iMAGE:994307 3	ab51112.r1 Stratagene lung carcinoma 937218 Homo sapiens cDNA clone IMAGE:844367 5	ab51f12.r1 Stratagene lung carcinoma 937218 Homo sapiens cDNA clone IMAGE:844367 5	Homo sapiens circuiusonie z i uninomi ilinary	TOMO Saprents Cellumia NO Lucitorius menos	Homo sapiens call line KG4 transminimal regulatory protein p54 mRNA, complete cds	Human MUSTA (AMIC I/MICS) I lostorly in NYS, per uni sec	Human endogenous recovirus richardio partici cae		Homo sapiens v-tos FBJ munne osteosarcuita vitar office feet for the first many	Homo sapiens mRNA for putative ankynn-repeat containing profess (Cristic)	TR:073634 073634 NEURAL CELL ADHESION MOLECULE:	TR:O73634 O73634 NEURAL CELL ADHESION MOLECULE:	Homo sapiens protein syrusine prospiratese, rowper 3250, 100 Cardian to	and IncC incompatibility determinants	Bacteriophage P1 replication region including repA, parA, and parB genes and incA, incB.	Homo sapiens mkn/k for rapa 2 (rapa gene)	Homo sapiens death receptor o (prog), minuto	Homo sapiens skeledal iriusche Elimpioceni ( ) in: ) goring compression de la compression della compression della compression della compre	member 2 (LILRA2), mRNA  member 2 (LILRA2), mRNA  increase abolish muscle 1 M. rottein 1 (FHI 1) gene, complete cds	Homo seriens leukocyte immunodlobulin-like receptor, subfamily A (with TM domain).

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	Homo sapiens soluble lieuropiii:	Tromo school and manufacture of the control of the	Homo saniens v-ets avian erythrobiastosis virus E26 oncogene related (E100), IIII	Homo saplens v-ets avian erythroblastosis virus E26 direction (care ) mRNA	Homo sapiens ribosomal protein 32 (Nr 32) missage related (ERG), mRNA	Homo sapiens 71770000 Boild F. Co (DDC) TRNA	LIA AGESO gane product (KIAAOS69), mRNA	Homo saniens mRNA for KIAA1414 protein, partial cds	Homo sapiens similar what involves	cimilar to get integral membrane glycoprotein POM121 (POM121L1), mkny	SW:KRB4 SHEEP P02445 KEKATIN, FIGHT-SOEL CONTROL	2a06g01.r1 Soares NhHMPU ST HORRO Septems Control MATRIX PROTEIN, IIIB4. [1]:	Human gene for 1 ype Ala College and Society Clone IMAGE:812496 5' similar to	Circles of the State of the Sta	III.H.RWID.als-e-12-0-UI.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone INFACE.21 30055	UI-T-BWC-ajo-C-12-0-0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		Homo sapiens mRNA for KIAA0796 protein, partial cos	Homo saplens matrix metalloproteinase 24 (membrare-iliselico) (mini - //	Homo sapiens chromosome 21 segment HSZ I CUU+	Homo saplens chromosome 21 segment 12	NHTBCae15g09	NHTBCae15g09f1 Normal Human Hadewick Come	NHTBCae15g09	NHTBCae15g09f1 Normal Human Trabecular Boile Cells Tollic Corp.	Homo saplens SH2-containing protein NSPZ mRNA, Culliples Considers CDNA clone	Homo sapiens SH2-containing protein NSpz IIINNA, complete cds	Homo sapiens WAVE2 mRNA for WASP-lattilly pidesit, Complete cds	Homo sapiens glyceraldehyde-3-phosphala deliydi Samblete ods	Homo sapialis lilivin C. C. F. S. Johndonsen (GAPD), mRNA	TONA for G protein-coupled inward rectifier potassium channel, complete cus	Homo sapiens midline 1 (Optiz/BBB syndrome) (MIC) I IIINV	Homo sapiens midline 1 (Opitz/BBB syndrome) (MICI) IIII	Homo saplens KIAA0806 gene product (KIAA0809), IIINNA	Homo sapiens heparan sulfate (glucosamine) 3-0-sulforario sulfate (glucosamine) 3-0-s	hi84g01.x1 Soares NFL 1 GBC of noming september 1 (HS3ST1) mRNA	hi84g01.x1 Soares_NFL_1_GBC_S1 Home septens cDNA done IMAGE:2979024 3	Homo sapiens retinoplastoma-pinumy process cDNA clone IMAGE:2979024 3	Homo sapiens gailling Succession 2 (Reap2) mRNA	QVU-C1022220000 100 00 100 00 100 00 100 00 100 00	CT0225 Homo saplens cDNA	WT: 1 1904.4 CE:07.7 - 1	W.D. T10BA A CE13742:

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	42 NT	58 NT	NT	78 NT	38 NT	8/ N.	87 N.	EST_HUMAN		TNC	EST_HUMAN	Z		Z			NT	8 NT	8NT	5 N I	2	NT.	NT.	N T	Z	NT		Z T	12.	NIT	b.	EST HUMAN	N T	12	2	NT		NT	NT
	Homo sapiens zinc finger protein (KIAA0412) MKNA	Homo sapiens ryanodine receptor 3 (NTN3) IIINNA	Homo sapiens HBP1/ neparitruituili aliu i Ci Ciiiciii B F	Homo sapiens meianorita artugeri, iarim) c.	Homo sapiens giudinate receptor, incurrent (MAGEB1) mRNA	Thomas Substances recentor metabotropic 3 (GRM3) mRNA	Hamp sapiens AP1 namma subunit binding protein 1 (AP1GBP1), mRNA	UNIT CONTROL SEE APT 1 namma subunit binding protein 1 (AP1GBP1), mRNA	DVEZ-42/NDA43 r4 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434N0413 5	Homo saplens ribosomal protein S8 (RFS9), Illinia	TR: 043340 043340 R28830 2 ;contains element PTR7 repetitive element ;	Linding septems ampriprize 3 cm 12 Homo sapiens cDNA clone IMAGE:2411065 3' similar to	Homo sapiens amphinhysin gene, partial cds		(KCNB1) mRNA  (K	Homo sapiens potassium voltage-gated channel, Snao-Heidled sublating, income	Human zinc finger protein ZNF134 MKNA, Cumplete Cos	Homo sapiens chromosome A open reading many 5	Homo sapiens children of Capacitan frame 5 (CXORF5) mRNA	nomic sapiens unistent tooper F	The positions transfer transport potential channel 5 (TRPC5), mRNA	Homo saplens chromosome 21 segment HS21C079	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1D (HTK1U) mkrvx	Homo sapiens myosin light chain kinase Isoform 2 (MLCK) mkNA, complete cus	Homo sapiens myosin light chain kinase isoform 2 (MLCK) mkNA, complete cus	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA	Homo sapiens methyl CpG binding protein 2 (MECP2), MKNA	complete cds	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ6/BIR1) gene.	Homo saplens desmoplakin (DPI, DPII) (DSP) mRNA	Homo saplens protocadherin beta 3 (PCDH-beta3) mRNA, complete cos	te62f10.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA Gorie INVAGE. 2031301	cds	Homo saplens smooth muscle myosin heavy chain SM1 mRNA, alternatively spliced, parual	Homo saplens similar to rat integral membrane glycoprotein FOW 12 1 (FOW 12 15 17)	DOM:21 (DOM:21 1) mBNA	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA	Pan troglodytes olfactory receptor (PTRZVO) gerre, Paries Sec	Homo saplens DNA mismatch repair protein (MLH3) gene, complete cds

			-				
Homo sapiens GA-binding protein transcription factor, alpha subunit (60kD) (GABPA), III NAMA					T	8107	4029
Homo sapiens GA-binding protein transcription lacture, alpha sec	54 NT	4503854 NT	0	12	14241	-T	
	05 NT	5901905	0	1.0		$\neg \tau$	4028
	47 NT	4826947 NT	0	0.8		$\neg$	4000
Homo sapiens protein kinase, X-linked (PRKX) mRNA	NT NT	4826947 NT	٥	0.8	Т	8253	403
	NT	AF157476.1		9 !	7	_	4013
Homo sapiens DGCR8 (DGCR6) Illiniva, cumples cds	NT	AF165527.1		37	14207	Т	4005
Novel human mKNA from Chrollosoffer, minor the constant	NT	AL096857.1		16	Т	1	4003
Homo sapiens ras Girase activating processing the similarities to BAT2 genes	)7 NT	4758807	9	<u>ا</u>	34046	1	100
Homo sapiens mknA for Nicholzer Being, Person IIKB (NGAP) mknA	NT	AB006625.1	9	1.8	14015	Т	100
Homo sapiens G protein-coupled receptur 2 ( Cr 12 / 1 :::: 1 ::::	6 NT	4885306		40	14244	7	SARS
Syllinomore, proof.	NT	4503914 NT	0	) 30	14300		3
Homo sapiens phosphoribosylglycinamide formyltransierase, pirospironosylerycinamide formyltransierase, pirospironosylerycinamide synthetase (GART) mRNA							
Figure 3 aproise 10 arrest 10 aproise 10 apr	O.N.	5032026 NI	0	5.6	14186	Т	300
I Como saplene refinchiastoma-binding protein 4 (RBBP4) mRNA	0.2	5032026 NI	0	5.6	14195	Т	3981
I como captone retinoblastoma-binding protein 4 (RBBP4) mRNA	Z	AJ277276.1	0	3.3	14191	Т	3976
Homo sapiens mena for rana-2 (rapa gene)	NT	AJ277276.1	0	3.3	14180		3076
Homo sapiens filinian to Concept and Gene	Y.	AJ238617.1.	0	<u>မ</u> မ		9490	306
Criticional Control of the Control o	12	AB015610.1	0	6.2	14177	Т	3960
Chlorocebuse aethions mRNA for ribosomal protein S4X, complete cds	2	∪09366.1	0	2.1	14156	Т	3940
Homo sapiers protein ZNF133		7662183	0	1.2	14155	9072	3839
norma saprens edata / control (KIAA0569), mRNA	Z	4503470 N	0	25.8		9050	3025
Homo sapiens circultosome 2 (Superior Factor 1 alpha 1 (EEF1A1) mRNA	N	AL 163268.2	0	1.5	14145	9058	3924
Homo sapiens chromosome z i segment HS21C068	NT	AL163284.2		29	1 1 2 2	9 5 5 7	3912
Novel human gene mapping to chomosome 20	NT	AL118494.1	0	15	14435	9040	3905
Homo sapiens chromosome 21 segment HSZTC103	N.T	Al 163303.2	3	0.0	-	9038	3903
Human MHC class II lymphocyte antigen DPW4-beta-z pseudogette, excit	3	M23910.1		3 6	14120	9028	3893
Homo sapiens cancer-testis antigen CT10 (CT10) gene, complete cos	Z	AF116105.1	,	4.6	14119	9028	3893
Homo sapiens cancer-testis antigen C110 (C110) gene, Complete Cds	NT.	AE118195 1	}	,  -	14090	8996	3860
PM3-LT0031-100100-003-h09 LT0031 Homo sapiens CUNA	EST HUMAN	AW580740.1		1.6	14090	8990	3854
601153727F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3509743 5	EST HUMAN	DE313146 1	0	3.2	14089	8989	3853
601236966F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3505000 3	DAT HIMAN	AF 128300.1		- - -	14084	8984	3848
Homo sapiens F-box protein Fbi3b (FBL3B) mRNA, partial cds	Z	AE420522 1		<u>-</u>	14079	8978	3842
similar to MXRA5 Matrix remodeling associated gene 5	EST HUMAN	1	,				
similar to MXRA5 Matrix remodeling associated gene 3	EST_HUMAN	AW888221.1	0	1.4	14078	8978	38 64 7
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Table 4

Human GZ brotein hinne, paruar cas	Z	U10991.1	0	1.2	14443	П	4237	┱
NACIA!	563384	6	0	0.9			4230	7
	6563384 NT	6	0	0.9	14436	$\neg$	4230	1
Homo sapiens proprotein Chivenese suchialinacen. 3FC = 1, CCC = 7,	4505646 NT	4	0	1.0	14429	$\neg$	4224	7
Human CBFA3 (Colad) geller, polluci Cas	N	U14520.1	0	4.1		7	4210	Т
IMAGE:1724579 3' similar to contains MER20		Al189844.1	0	1.9		9331	4206	
Homo sapiens r-box protein for (1007) Indian State of the	Z	AF174590.1	0	5.7	14411	9324	4198	П
Homo sapiens myelodyspiasia syndicine i (wC31) iiinyo	26827	4.	0	0.9	14409	9322	4196	Т
Homo sapiens myelouyspiasia syllulolite i (MDG1) mena		4	0	0.9	14408	9322	4196	П
PM2-D10023-080300-004-a08 D10023 notific sapistis control		AW936689.1	0	1.0	14400	9316	4190	T
Human apolipoprotein b-100 litrivity, comprete cos	ŽT	J02610.1	0	7.8	14383	9302	4176	┰
Homo sapiens mRNA for oliactory receptor proteint, pseudogenia		AJ003145.1	0	1.1	14369	9289	4163	Т
Homo sapiens chromosome 41 segineiri no410 ivo		AL163303.2	0	0.9		9263	4137	T
Homo sapiens desmobiakin (Ur.I. Ur.I.) (UG.I.) III (UR.)	58199	4.	0	8.2	14336	9256	4130	Т
Homo sapiens desmoplakin (DFI, DFII) (DGC) BRNA	4758199 NT	4.	0	8.2	14335	9256	4130	П
Homo sapiens semenogenii i (Scrivo) - Davio	4506882 NT	45	0	0.9	14333	9252	4126	T
Homo sapiens uun (11N) minux	4507720 NT	*	0	3.8	14324	9239	4113	Т
Homo sapiens uun ( i IN) mrink	4507720 NT	45	0	3.8	14323	9239	4113	Т
ontains eleme	1 EST_HUMAN	AA401438.1	0	7.8	14308	9224	4098	
contains All repetitive element; contains element MER35 repetitive element;  contains All repetitive element; contains element MER35 repetitive element;  contains All repetitive element; contains element MER35 repetitive element;	1 EST_HUMAN	AA401438.1	0	7.8	14307	9224	4098	
sea urchin homolog)-like (PKDREJ) mRNA sebo 2 4 Sparse havis NHT Home sanians cDNA done IMAGE:743197 3' similar to	5174632 NT	5	0	2.0		9208	4081	
	8922466 N I	g	0	1.3	14284	9198	4071	
	8922466 NT	8	0	1.3	14283	9198	4071	- 1
UI-HF-BM0-adx-c-02-0-UI.r1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3053147 5	.1 EST_HUMAN	AW408788.1	0	1.5	14280	9196	4069	- 1
SW:THI2_BOVIN Q95108 MITOCHONDRIAL THIOREDOXIN PRECURSOR;	.1 EST_HUMAN	AW675599.1	0	6.2		9191	4064	
Homo sapiens nuclear receptor coacuvator o (140000), minutes	5729725 NT	57	0	2.0	14266	9183	4056	- 1
giutamyltransferase) (TGM3) mRNA	4507476 NT	45	0	1.0	14265	9182	4055	ı
6011207/8F1 NIM MGC 20 notific sapisits cover series in contractions and contractions and contractions and contractions are contracted and contractions and contractions are contracted and contracted an	1 EST_HUMAN	BE274217.1	0	2.0		9175	4048	)
MRT-H10707-10000-00 1-802 1110707 1 101107 SEPTEMBER MAGE: 2967690 5	ESI	BE184856.1	0	0.9	14258	9171	404	1
MR1-HT0707-100500-001-a0Z H10707 Homo sapiens cDNA	EST	BE184856.1	0	0.9	14257	9171	4044	
WU04d04.x1 NCI CGAP GC6 Homo sapiens CDNA durie IMAGE.2010010		AI982597.1	0	4.6	14255	9169	4041	١
wu04d04.x1 NCI_CGAP_GC6 Homo sapiens culva ciolie ilwace.2513513 c		AI982597.1	0	4.6	14254	9169	404	1
Homo sapiens hypothetical protein FLJ10379 (FLJ10379), mkna	1	89	0	=	14244	918	4032	1
	8922391 NT	89		=	14243	9189	4032	1

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	Homo sapiens eukaryouc ualislaudi cicii			Homo saniens protocadherin gamma C3 (PCDH-gamma-C3) mRNA, complete cus	Homo sapiens syncytin precursor, mRNA, complete cds	Homo sapiens zinc finger protein 195 (ZNF195), mRNA	Homo sapiens pyrin (MEFV) gene, complete cas	Homo sapiens pyrin (MEFV) gene, compiete cas	Homo sapiens A I r-sensiuve ilimatury rocking.	gene, exon	H. sapiens pancreatic polypeptide receptor PP1 gene		Homo saplens G protein-coupled receptor 50 (GPR50) mKNA	Homo sapiens mRNA for putative ankyrin-repeat containing protein (Critical	Homo sapiens mRNA for putative ankyrin-repeat containing protein (CN: 1)	PM1-HT0305-101199-002-003 HT0305 Homo sapiens CDNA	Homo sapiens chromosome 21 segment HS21CUU/	mRNA, complete cds	Homo sablens vascular endothelial cell growth factor 165 receptor/neuropilin (VEGr 103)	Homo sapiens LIM domain kinase 2 (LIMIC), uarisaribi variaris asi, mina n/E/CE185)	AHNAK ;	SW:AHNK_HUMAN Q09666 NEUROBLAST DIFFERENTATION ASSOCIATED THE	xx68e08.x1 NCI_CGAP_Eso2 Homo sapiens cUNA done invocation accordance DROTEIN	Homo sapiens HPS1 gene, intron 5	Homo saplens ACTN2 gene for alpha-Aculuit 2, exertive	Homo sapiens ACTINE generic in alpha Actinin 2 even 10	Homo sapiens myosin regulatory light Chair missions 8	Homo sapiens may to his significant chain interacting protein (MIR), mRNA	Homo sapiens caudal type nomed box utaliscriptum issues (	Homo saplens KIAAU390 gene product (KIAAU390),	Homo sapiens KIAA0390 gene product (NIAA0390), mBNA	H. saplens H4/d gene for H4 histone	H.sapiens H4/d gene for H4 histone	H.sapiens H2B/h gene	H.sapiens H2B/n gene	splice products, partial cds	Homo saplens plasma membrane calcium ATPase isotom 1 (ATP201) gene, and	Human ig light chain VL1 region germline (numivicacy gene, Barrer Barrer) gene alternative	Homo sapiens gap junction protein connexin-so (CASO) going partial cds	Homo sapiens COMPLEMEN I COMPONENT ON THE COMPONENT OF TH	Human G2 protein mRNA, partial COS	

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	601158935F1 NIH_MGC_21 Homo sapiens culva ciolie image:	al abloon ("o	Jacob Common februaries (#937205) Homo saplens cDNA done IMAGE:68310 5	vasanA /2 Stratagene fetal spleen (#937205) Homo sapiens cDNA clone IMAGE: 68310 3	Homo sapiens butyrophilin, subramily 2, illeniber 22 (2002)	١-	Human displacement protein (CCC) ( man a / ATN2A2) mRNA	TOTO Sapisio III No. 12: 11 PRINA	Thomas applies mRNA for KIAA1399 protein, partial cds	Home sanians mRNA for KIAA1399 protein, partial cds	recombination breakpoint region	lucas series trincated tenascin XB (TNXB) gene, partial cds and TNXA gene	OV2-BT0635-160400-142-h05 BT0635 Homo saplens cDNA	pe ス(エ	Homo sapiens titin (TTN) mRNA	Homo sapiens utin (TTN) mRNA	complete cds	Homo saplens inwardly-rectifying potassium channel Kir2.1 (KCNJZ) gene, exon 2 and	complete cds	Homo saplens inwardly-rectifying potassium channel NIZ. I (NCINE) Bolley		Homo sapiens keratin 18 (KK I 10) IIIKWA	Homo saplens gene for natificación protein, Personales	Homo sapiens chromosome 21 segment 132.000		Homo sapiens chromosome 21 segment rioz 1997	Homo sapiens odz (odd Uz/len-m, Diosopillia) ironiosa	zp18gua.s1 Sualagaria iouri Contra Processibilas homolog 1 (ODZ1), mRNA	School fetal retina 937202 Homo sapiens cDNA clone IMAGE:609854 3'	Homo saplens DNA for amyloid precursor protein, complete cds	7c protein (G/	histocompatibility complex)	Homo sapiens mRNA for G7c protein (G/c gene located in the Case	Homo sapiens PTEN (PTEN) gene, exons 3 inrough 5	Homo sapiens KIAA0390 gene product (NAXO390), in the	Homo saplens KIAA0390 gene product (Niroxecty),	Homo sapiens iduronate sulpitate sulpitates (VIII Angon) mRNA	Homo sapiens calculification with balance (IDS) game, complete cds	Homo sapiens cholicitum actività de la constant protein kinase IV (CAMK4) mRNA	1 In the second of the contest of

5032150 NT (TAP2) mkNA (TAP2) mkNA (TAP2), mkNA (TAP2), mkNA
Homo sapiens TATA box binding protein (IBF) associated factor, was portionally
NT Human collagenase type IV (CLG4) gene, exon 2
NT H.sapiens MeCr-2 gene
NT alpha) gene, J1-J61 segments; and Tcr-C-alpha gene, exons 1-2: T-cell receptor alpha (Tcr-
7561070 NT Homo sapiens KIAA0187 gene product
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	8923	8923	AB028966.1	4/50	DE400000.	7,00003	114087 1	4507720	AF058332.1	AF058332.1	45077	8922926	AW452728.1	AL 100ZOTA	163080	AB036898 1	013030.1	1000	D15050.1	4506952 NT		4503684 NT		D63562.1	4507720 NI	AJ277892.1	40077004	4507720 NT	AFOSTATION	4303300141	AFUSSUBB. 1	AU010442.1	1000	7705546 NT	V16723 1	4758199 NT	5174560 NT	001.01	6677648 NT	AB014533.1
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						HUMAN							HUMAN																										7	
	Homo saplens hypothetical protein research to the same and the same an	Homo sapiens Typouleuse Property FI 120477), mRNA	promo septeno immentali protein FLJ20477 (FLJ20477), mRNA	Long contens mRNA for KIAA1043 protein, partial Cds	Homo saplens desmoplakin (DPI, DPII) (DSP) mRNA	601303729F1 NIH MGC 21 Homo sapiens cUNA Cione IMAGE Joseph Co	Human ribosomal protein L21 mKNA, complete cus	Homo sapiens titin (TTN) mRNA	Homo sapiens titin (TTN) gene, alternative spilice produces, person	Homo sapiens uun (1 I N) gene, aiteiriauve spice producte narial ods	Homo sapiens uun (IIIN) IIINNA		UPH-BIG-BIV-POCK-COLS I ROLLOGE	The state of the s	Homo sapiens chromosome 21 segment HS21Cuo4		Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, Charles,	Human mRNA for transcription factor AREBO, Compress Co. 100 Co. 100 CT. 2	Human mRNA for transcription lactor Andrew Complete Cole	GD3 synthase) (SIA10) HINTER Complete cds	o (alphar	dimethylaliyudansudalisidises, 8 (sloha-N-acathneuraminate: alpha-2,8-sialytransferase,	Homo sapistis latities of care or care of the constraint of the co		Long carling COI 4A6 gene for a6(IV) collagen, exon 44 and partial cds		Homo saplens partial TTN gene for titin	Homo sapiens titin (TTN) mRNA	Homo sapiens titin (TTN) mRNA	Homo saciens splice variant AKAP350 mRNA, partial cds	a 1 (OF	Homo sapiens MHC class 1 region	Homo sapiens mRNA for immunoglobulin kappa light chain, airu-Niio, uicios	Homo sapiens zinc-finger DNA-binding protein (FIUMFICATION IN THE SET THE PARTY)	Homo saplens gene encoding filensin, exon o	Homo saplens desmoplakin (Uri, Urii) (ISI / IIII	HOMO Sapletia maining company (DSP) mRNA	meningiona expressed antigen 6 (colled-coil proline-rich) (MGEA6), mRNA	Mus musculus zinc finger protein interacuity with a process.	Homo sapiens mRNA for KIAAU633 protein, parties with K protein 1 (Zik1), mRNA

Human olfactory receptor-like gene, complete cus						_	
	<u> </u>	L35475.1	0	1.3		Л	5098
Homo sapiens unit (1 114) tilinato	20 NT	4507720 NI	0	6.3	$\Box$	$\neg$	5096
TOTIO Sapielis dui (1117) III.	20	4507720 NI	0	6.3	14323		5096
Homo sapiens dun (TTN) mRNA	NT	4507720 NT	0	3.0	15258		5080
gene, complete cds	NT.	U91328.1	0	₫	15247	10169	5071
Human hereditary haemochromatosis region, mawire arrive process gene, necessity haemochromatosis (HLA-H) gene, RoRet gene, and sodium phosphate transporter (NPT3)							
Human cellular tibronecun mkina	Z <sub>1</sub>	M10905.1	0	.; O	15246		5070
Human cellular fibronecun mixix	N <sub>T</sub>	M10905.1	0	5	15245		5070
F 8:	2 NT	4557362 NT	0	1.3	15240	_1	5065
Home sapiens duri (1119) History with 7NE domain (PROM1) mRNA	NT	4507720 NT	0	14.9	14324	$\neg$	5056
Homo sapiens gun (1 i N) mxxxx	O NT	4507720 NT	0	14.9	14323	Т	5056
Homo sapiens duri (1 iv) ilixvx	ONT	4507720 NT	٥	11.2	14324	$\neg$	5055
Tions sapiens dun (1 in) mena	O NI	4507720 NI	0	11.2	14323	9239	5055
1000	Ö N	6677700 NI	٥	1.2	15230	_	\$05 \$202
Tionio sapiena Caratain counied recentor (RE2), mRNA	2	5454153 N	0	1.0	15218		5040
Homo saplens vasculai eliuuriellai Cauriella ( ISA-CYD) mRNA	NI	AF240635.1	0	1.8	15214	10137	5037
TOTIO Septetto vescular official cadherin 2 mRNA complete cds	2	AF240635.1	0	1.8	15213		5037
Bacillus amyoliqueracieris saco gene ioi ioini accidente de social de la compositione de	3	X52988.1	0	2.4	15192	_1	5018
Homo sapiens uun (+ IN) IIINNA	ONT NT	4507720 NT	0	2.9	14324	_	5005
Homo sapiens dun (111V) ilinias	ONT	4507720 NT	0	2.9	14323		5005
Homo saplens utin (11N) mknx	ONT	4507720 NT	0	4.2	15174		5003
Homo sapiens uun (1 TN) mRNA	0 NT	4507720 NT	0	3.0	15172	10102	5001
Homo sapiens partial TTN gene for unn	NT	AJ277892.1	0	2.3	15171		2000
Homo saplens gamma-cytopiasmic acuti (AC i GF3) pseudogenio	NT	D50657.1	0	37.8			490
	NT	AL163209.2	0	1.3		_	4987
Homo sapiens E6-AP ubiquitin-protein ligase (UDE3A) gelle, excl. o	NT	AF016705.1	٥		15151	1008	4978
Homo sapiens E2F transcription factor 2 (E2F2) filtrick	5 NT	4758225 NI	0	1.2		10071	4088
	ONT	4507720 NT	٥	7.8	15135	10063	4050
Homo sapiens titin (TTN) mRNA	INC	4507720 NT	٥	35	51.2		1050
Homo sapiens titin (TTN) mRNA	NT	4507720 NT	٥	5.8	14324	930	1057
Homo saplens titn (TTN) mkwa	NT	4507720 NT	٥	5.8	14323	9239	4057
antigen family A12 (MAGEA12), melanoma antigen family A2b (MAGEA2B), melanoma antigen family A3 (MAGEA3), caltractin (CALT), NAD(P)H dehydrogenase-like protein (NSDHL), and LI>	T	U82671.2	0	<u></u>	15129	10058	4953
Homo sapiens chromosome Xq28 melanoma antigen family A2a (MAGEA2A), melanoma	12	U826/1.2	lo	1:2	15128	10058	4953
antigen family A12 (MAGEA12), metanoma antigen family A2b (MAGEA2B), metanoma antigen family A3 (MAGEA3), caltractin (CALT), NAD(P)H dehydrogenase-like protein (NSDHL), and LI>	4						

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## CLAIMS

- A spatially-addressable set of single exon nucleic acid probes for measuring gene expression in a sample derived
   from human heart comprising a plurality single exon nucleic probes, said probes comprising any one of the nucleotide sequences set out in SEQ ID NOs: 1 5,202 or a complementary sequence, or a portion of such a sequence.
- 10 2. A spatially-addressable set of single exon nucleic acid probes as claimed in claim 1 wherein each of said plurality of probes is separately and addressably amplifiable.
- 3. A spatially-addressable set of single exon nucleic acid probes as claimed in claim 1 wherein each of said plurality of probes is separately and addressably isolatable from said plurality.
- 4. A spatially-addressable set of single exon nucleic acid 20 probes as claimed in any of claims 1 to 3 wherein said probes comprise any one of the nucleotide sequences set out in SEQ ID NOS.: 5,203 - 10,283.
- 5. A spatially-addressable set of single exon nucleic acid 25 probes as claimed in any of claims 1 to 4, wherein each of said plurality of probes is amplifiable using at least one common primer.
- 6. A spatially-addressable set of single exon nucleic acid 30 probes as claimed in any of claims 1 to 5 wherein the set comprises between 50 - 20,000 single exon nucleic acid probes.
- 7. A spatially-addressable set of single exon nucleic acid 35 probes as claimed in any of claims 1 to 6, wherein the

average length of the single exon nucleic acid probes is between 200 and 500 bp.

- 8. A spatially-addressable set of single exon nucleic acid 5 probes as claimed in any of claims 1 to 7, wherein at least 50% of said single exon nucleic acid probes lack prokaryotic and bacteriophage vector sequence.
- 9. A spatially-addressable set of single exon nucleic acid probes as claimed in any of claims 1 to 8, wherein at least 50% of said single exon nucleic acid probes lack homopolymeric stretches of A or T.
- 10. A spatially-addressable set of single exon nucleic acid probes as claimed in any of claims 1 - 9 characterised in that said set of probes is addressably disposed upon a substrate.
- 11. A spatially-addressable set of single exon nucleic acid 20 probes as claimed in claim 10 wherein said substrate is selected from glass, amorphous silicon, crystalline silicon and plastic.
- 12. A microarray comprising a spatially addressable set of single exon nucleic acid probes as claimed in any of claims 1 11.
- 13. A single exon nucleic acid probe for measuring human gene expression in a sample derived from human heart

  30 comprising a nucleotide sequence as set out in any of SEQ ID NOs.: 1 5,202 or a complementary sequence or a fragment thereof wherein said probe hybridizes at high stringency to a nucleic acid molecule expressed in the human heart.

14. A single exon nucleic acid probe as claimed in claim 13 comprising a nucleotide sequence as set out in any of SEQ ID NOs.: 5,203 - 10,283 or a complementary sequence or a fragment thereof.

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- 15. A single exon nucleic acid probe for measuring human gene expression in a sample derived from human heart which is a nucleic acid molecule having a sequence encoding a peptide comprising a peptide sequence as set out in any of SEQ ID NOs.: 10,284 15,322, or a complementary sequence or a fragment thereof wherein said probe hybridizes at high stringency to a nucleic acid expressed in the human heart.
- 16. A single exon nucleic acid probe as claimed in any one
  15 of claims 13 to 15 wherein said single exon nucleic acid
  probe comprises between 15 and 25 contiguous nucleotides of
  said SEQ ID NO.
- 17. A single exon nucleic acid probe as claimed in any one of claims 13 to 15, wherein said probe is between 3 25 kb in length.
  - 18. A single exon nucleic acid probe as claimed in any one of claims 13 17, wherein said probe is DNA, RNA or PNA.

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- 19. A single exon nucleic acid probe as claimed in any one of claims 13 18, wherein said probe is detectably labeled.
- 30 20. A single exon nucleic acid probe as claimed in any one of claims 13 - 19, wherein said probe lacks prokaryotic and bacteriophage vector sequence.
  - 21. A single exon nucleic acid probe as claimed in any one

of claims 13 - 20, wherein said probe lacks homopolymeric stretches of A or T.

22. A method of measuring gene expression in a sample derived from human heart, comprising:

contacting the microarray of claim 12, with a first collection of detectably labeled nucleic acids, said first collection of nucleic acids derived from mRNA of human heart; and then

measuring the label detectably bound to each probe of said microarray.

23. A method of identifying exons in a eukaryotic genome, comprising:

algorithmically predicting at least one exon from genomic sequence of said eukaryote; and then detecting specific hybridization of detectably labeled nucleic acids to a single exon probe,

wherein said detectably labeled nucleic acids are derived
from mRNA from the heart of said eukaryote, said probe is a
single exon probe having a fragment identical in sequence
to, or complementary in sequence to, said predicted exon,
said probe is included within a microarray according to
claim 12, and said fragment is selectively hybridizable at
high stringency.

24. A method of assigning exons to a single gene, comprising:

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identifying a plurality of exons from genomic sequence according to the method of claim 23; and then

measuring the expression of each of said exons in a plurality of tissues and/or cell types using hybridization to single exon microarrays having a probe with said exon,

wherein a common pattern of expression of said exons in said plurality of tissues and/or cell types indicates that the exons should be assigned to a single gene.

- 5 25. A nucleic acid sequence as set out in any of SEQ ID NOs: 1 10,283 which encodes a peptide.
  - 26. A peptide encoded by a sequence as set out in any of SEQ ID Nos: 1 10,283.
- 10
  27. A peptide comprising a sequence as set out in any of SEQ ID Nos: 10,284 15,322.

## Amendments to the claims have been filed as follows

- 1. A spatially-addressable set of single exon nucleic acid probes for measuring gene expression in a sample derived from human heart comprising at least 50 single exon nucleic probes, said probes comprising any one of the nucleotide sequences set out in SEQ ID NOs: 1 5,202 or a complementary sequence, or a unique fragment of such a sequence wherein at least 50% of said single exon nucleic acid probes lack prokaryotic and bacteriophage vector sequence and wherein at least 50% of said single exon nucleic acid probes lack homopolymeric stretches of A & T.
- 2. A spatially-addressable set of single exon nucleic acid probes as claimed in claim 1 wherein each of said plurality of probes is separately and addressably amplifiable.
- 3. A spatially-addressable set of single exon nucleic acid probes as claimed in claim 1 wherein each of said plurality of probes is separately and addressably isolatable from said plurality.
- 4. A spatially-addressable set of single exon nucleic acid probes as claimed in any of claims 1 to 3 wherein said probes comprise any one of the nucleotide sequences set out in SEQ ID NOS.: 5,203 - 10,283.
- 5. A spatially-addressable set of single exon nucleic acid probes as claimed in any of claims 1 to 4, wherein each of said plurality of probes is amplifiable using at least one common primer.

- 6. A spatially-addressable set of single exon nucleic acid probes as claimed in any of claims 1 to 5 wherein the set comprises between 50 - 20,000 single exon nucleic acid probes.
- 7. A spatially-addressable set of single exon nucleic acid probes as claimed in any of claims 1 to 6, wherein the average length of the single exon nucleic acid probes is between 25 and 500 bp.
- 10. A spatially-addressable set of single exon nucleic acid probes as claimed in any of claims 1 - 9 characterised in that said set of probes is addressably disposed upon a substrate.
- 11. A spatially-addressable set of single exon nucleic acid probes as claimed in claim 10 wherein said substrate is selected from glass, amorphous silicon, crystalline silicon and plastic.
- 12. A microarray comprising a spatially addressable set of single exon nucleic acid probes as claimed in any of claims 1 11.
- 13. A method of measuring gene expression in a sample derived from human heart, comprising:
  - contacting the microarray of claim 12, with a first collection of detectably labeled nucleic acids, said first collection of nucleic acids derived from mRNA of human heart; and then measuring the label detectably bound to each probe of said microarray.

14. A method of identifying exons in a eukaryotic genome, comprising:

algorithmically predicting at least one exon from genomic sequence of said eukaryote; and then detecting specific hybridization of detectably

labeled nucleic acids to a single exon probe, wherein said detectably labeled nucleic acids are derived from mRNA from the heart of said eukaryote, said probe is a single exon probe having a fragment identical in sequence to, or complementary in sequence to, said predicted exon, said probe is included within a microarray according to claim 12, and said fragment is selectively hybridizable at high stringency.

15. A method of assigning exons to a single gene, comprising:

identifying a plurality of exons from genomic sequence according to the method of claim 14; and then

measuring the expression of each of said exons in a plurality of tissues and/or cell types using hybridization to single exon microarrays having a probe with said exon,

wherein a common pattern of expression of said exons in said plurality of tissues and/or cell types indicates that the exons should be assigned to a single gene.







Application No: Claims searched: GB 0024263.6 1-12 and 22-24 Examiner: Date of search: L.V.Thomas 15 March 2001

Patents Act 1977 Search Report under Section 17

Databases searched:

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:

UK Cl (Ed.S):

Int Cl (Ed.7):

Other:

Online: EPODOC, WPI, BIOSIS, MEDLINE, CAS-ONLINE, SCISEARCH,

**EMBASE** 

Documents considered to be relevant:

Docum	ients considered to b	e relevant.	70.1
Category	Identity of documen	at and relevant passage	Relevant to claims
E, A	EP 1043405 A2	(AFFYMETRIX, INC.) see col.3 l.21 - col.4 l.23 and col.10 l.42 - col.11 l.38	1,22
E, A	WO 01/09369 A2	(AFFYMETRIX, INC.) see p.3 1.30 - p.4 1.24 and p.10 1.16 - p.11 1.19	1,22
			<u> </u>

Document indicating lack of novelty or inventive step

Document indicating lack of inventive step if combined with one or more other documents of same category.

Member of the same patent family

Document indicating technological background and/or state of the art. Document published on or after the declared priority date but before the

filing date of this invention. Patent document published on or after, but with priority date earlier than, the filing date of this application.